



025CIP SEQ List ver2.txt  
SEQUENCE LISTING

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## 025CIP SEQ List ver2.txt

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| ctgccaagtg ggcagtttac cgtaaatact ccaccattg acgtcaatgg aaagtccta    | 3180 |
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| gtcatgataa taatggthtt ttagacgtca ggtggcactt ttcggggaaa tgtgcgcgga  | 3480 |
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| accagcgttt ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg | 5460 |
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| gaatagaccg agataggggt gagtggtgtt ccagtttgga acaagagtcc actattaaag | 5940 |
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| cctaaaggga gccccgatt tagagcttga cggggaaagc cggcgaacgt ggcgagaaag  | 6120 |
| gaagggaaga aagcgaaagg agcgggcgct agggcgctgg caagtgtagc ggtcacgctg | 6180 |
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| tattggccat tgcatacggt gtatctatat cataatatgt acatttatat tggctcatgt  | 180 |
| ccaatatgac cgccatgttg acattgatta ttgactagtt attaatagta atcaattacg  | 240 |
| gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac ggtaaatggc  | 300 |
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| gacggtaaata ggccgcctg gcattatgcc cagtacatga ctttacggga ctttcctact  | 540 |
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| tcttcaattc tttatgccgg tgttgggctg gttatttatc ggagttgcag ttgcgcccgc  | 1260 |
| gaacgacatt tataatgaac gtgaattgct caacagtatg ggcatttcgc agcctaccgt  | 1320 |
| ggtgttcgtt tccaaaaagg ggttgcaaaa aattttgaac gtgcaaaaaa agctcccaat  | 1380 |
| catccaaaaa attattatca tggattctaa aacggattac cagggtttc agtcgatgta   | 1440 |
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| gctgctggtg ccaaccctat tctccttctt cgccaaaagc actctgattg acaaatacga  | 1860 |
| tttatctaatt ttacacgaaa ttgcttctgg tggcgtccc ctctctaagg aagtcgggga  | 1920 |
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| ctgggacgaa gacgaacact tcttcatcgt tgaccgcctg aagtctctga ttaagtacaa  | 2280 |
| aggctatcag gtggctcccg ctgaattgga atccatcttg ctccaacacc ccaacatctt  | 2340 |
| cgacgcaggt gtcgcaggtc ttcccgcga tgacgccggt gaacttcccg ccgccgttgt   | 2400 |
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| gttgaggtcc acgttcttta atagtggact cttgttccaa actggaacaa cactcaaccc  | 5580 |
| tatctcggtc tattcttttg atttataagg gatthttgccg atttcggcct attgggttaa | 5640 |
| aaatgagctg atttaacaaa aatttaacgc gaattttaac aaaatattaa cgtttacaat  | 5700 |
| ttcccatcgc ccattcaggc tgcgcaactg ttgggaaggg cgatcggtgc gggcctcttc  | 5760 |
| gctattacgc cagcccaagc taccatgata agtaagtaat attaaggtag gggaggtagt  | 5820 |
| tggagcggcc gcaataaaaat atctttatct tcattacatc tgtgtgttgg tttttgtgt  | 5880 |
| gaatcgatag tactaacata cgctctccat caaaacaaaa cgaaacaaaa caaactagca  | 5940 |
| aaataggctg tccccagtcg aagtgacagg gccagaacat tt                     | 5982 |

<210> 3  
 <211> 5924  
 <212> DNA  
 <213> artificial

|   |    |
|---|----|
| <400> 3   |    |
| ctctatcgat aggtaccgag ctcttacgcg tgctagccct cgagcaggat ctatacattg | 60 |

## 025CIP SEQ List ver2.txt

|  |      |
|--|------|
| aatcaatatt ggcaattagc catattagtc attgggtata tagcataaat caatattggc  | 120  |
| tattggccat tgcatacggt gtatctatat cataatatgt acatttatat tggctcatgt  | 180  |
| ccaatatgac cgccatggtg acattgatta ttgactagtt attaatagta atcaattacg  | 240  |
| gggtcattag ttcatagccc atatatggag ttccgcgtta cataacttac ggtaaatggc  | 300  |
| ccgcctggct gaccgccccaa cgacccccgc ccattgacgt caataatgac gtatgttccc | 360  |
| atagtaacgc caatagggac tttccattga cgtcaatggg tggagtattt acggtaaact  | 420  |
| gcccacttgg cagtacatca agtgtatcat atgccaagtc cgccccctat tgacgtcaat  | 480  |
| gacggtaaat ggccgcctg gcattatgcc cagtacatga cttacggga ctttcctact    | 540  |
| tggcagtaca tctacgtatt agtcatcgct attaccatgg tgatgcgggt ttggcagtac  | 600  |
| atcaatgggc gtggatagcg gtttgactca cggggatttc caagtctcca cccattgac   | 660  |
| gtcaatggga gtttggtttg gcacaaaaat caacgggact ttccaaaatg tcgtaacaac  | 720  |
| tccgccccat tgacgcaaat gggcggtagg cgtgtacggg gggagggtcta tataagcaga | 780  |
| gctcgtttag tgaaccgtca gatcgcttg agacgccatc cacgctgttt tgacctccat   | 840  |
| agaagacacc gggaccgatc cagcctcccc tcgaagctcg actctagggg ctcgagatct  | 900  |
| gcgatctaag taagcttggc attccggtac tgttggtaaa gccaccatgg aagacgcaa   | 960  |
| aaacataaag aaaggccccg cgccattcta tccgctggaa gatggaaccg ctggagagca  | 1020 |
| actgcataag gctatgaaga gatacgccct ggttcctgga acaattgctt ttacagatgc  | 1080 |
| acatatcgag gtggacatca cttacgctga gtacttcgaa atgtccgttc ggttggcaga  | 1140 |
| agctatgaaa cgatatgggc tgaatacaaa tcacagaatc gtcgtatgca gtgaaaactc  | 1200 |
| tcttcaattc tttatgccgg tgttggggcg gttatttatc ggagttgcag ttgcgccccg  | 1260 |
| gaacgacatt tataatgaac gtgaattgct caacagtatg ggcatttcgc agcctaccgt  | 1320 |
| gggtgttcgt tccaaaaagg ggttgcaaaa aattttgaac gtgcaaaaaa agctcccaat  | 1380 |
| catccaaaaa attattatca tggattctaa aacggattac cagggatttc agtcgatgta  | 1440 |
| cacgttcgtc acatctcatc tacctcccgg ttttaatgaa tacgattttg tgccagagtc  | 1500 |
| cttcgatagg gacaagacaa ttgactgat catgaactcc tctggatcta ctggtctgcc   | 1560 |
| taaagggtgc gctctgcctc atagaactgc ctgcgtgaga ttctcgcag ccagagatcc   | 1620 |
| tatttttggc aatcaaatca ttccggatac tgcgatttta agtgttggtc cattccatca  | 1680 |
| cggttttgga atgtttacta cactcggata tttgatatgt ggatttcgag tcgtcttaat  | 1740 |
| gtatagattt gaagaagagc tgtttctgag gagccttcag gattacaaga ttcaaagtgc  | 1800 |
| gctgctggtg ccaaccctat tctccttctt cgccaaaagc actctgattg acaaatacga  | 1860 |
| tttatctaatt ttacacgaaa ttgcttctgg tggcgctccc ctctctaagg aagtcgggga | 1920 |



## 025CIP SEQ List ver2.txt

|   |      |
|---|------|
| agcggttgcc aagaggttcc atctgccagg tatcaggcaa ggatatgggc tcaactgagac    | 1980 |
| tacatcagct atttctgatta cacccgaggg ggatgataaa ccgggcgcgg tcggtaaagt    | 2040 |
| tggtccattt ttgaaagcga aggttgtgga tctggatacc gggaaaacgc tgggcgttaa     | 2100 |
| tcaaagaggc gaactgtgtg tgagagggtcc tatgattatg tccggttatg taaacaatcc    | 2160 |
| ggaagcgacc aacgccttga ttgacaagga tggatggcta cattctggag acatagctta     | 2220 |
| ctgggacgaa gacgaacact tcttcacgtg tgaccgcctg aagtctctga ttaagtacaa     | 2280 |
| aggctatcag gtggctcccg ctgaattgga atccatcttg ctccaacacc ccaacatctt     | 2340 |
| cgacgcaggt gtcgcaggtc ttcccgcga tgacgccggg gaacttcccg ccgccgttgt      | 2400 |
| tgttttggag cacggaaaga cgatgacgga aaaagagatc gtggattacg tcgccagtca     | 2460 |
| agtaacaacc gcgaaaaagt tgcgcggagg agttgtgttt gtggacgaag taccgaaagg     | 2520 |
| tcttaccgga aaactcgacg caagaaaaat cagagagatc ctcataaagg ccaagaaggg     | 2580 |
| cggaaagatc gccgtgtaat tctagagtcg gggcggccgg ccgcttcgag cagacatgat     | 2640 |
| aagatacatt gatgagtttg gacaaaccac aactagaatg cagtgaaaaa aatgctttat     | 2700 |
| ttgtgaaatt tgtgatgcta ttgctttatt tgtaaccatt ataagctgca ataaacaagt     | 2760 |
| taacaacaac aattgcattc attttatgtt tcaggttcag ggggaggtgt gggaggtttt     | 2820 |
| ttaaagcaag taaaacctct acaaattgtg taaaatcgat aaggatcaat tcggcttcga     | 2880 |
| ctagtactga cggacacacc gaagccccgg cggaaccct cagcggatgc cccggggcct      | 2940 |
| cacgttttcc caggtcagaa gcggttttcg ggagtagtgc cccaactggg gtaacctttg     | 3000 |
| agttctctca gttggggcg tagggtcgcc gacatgacac aaggggttgt gaccggggtg      | 3060 |
| gacacgtacg cgggtgctta cgaccgtcag tcgcgcgagc gcgactagta caagccgaat     | 3120 |
| tgatccgtcg accgatgccc ttgagagcct tcaaccaggt cagctccttc cgggtggcgc     | 3180 |
| ggggcatgac tatcgtcgcc gcacttatga ctgtcttctt tatcatgcaa ctcgtaggac     | 3240 |
| aggtgccggc agcgtcttct cgcttcctcg ctcaactgact cgctgcgctc ggtcggttcgg   | 3300 |
| ctgcggcgag cggatatcagc tcaactcaaag gcggttaatac gggttatccac agaatacagg | 3360 |
| gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag     | 3420 |
| gccgcgttgc tggcggtttt ccataggctc cgccccctg acgagcatca caaaaatcga      | 3480 |
| cgctcaagtc agagggtggcg aaacccgaca ggactataaa gataaccaggc gtttccccct   | 3540 |
| ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata cctgtccgcc     | 3600 |
| tttctccctt cgggaagcgt ggcgctttct caatgctcac gctgtaggta tctcagttcg     | 3660 |
| gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc     | 3720 |
| tgcgcttat ccggtaaacta tcgtcttgag tccaacccgg taagacacga cttatcgcca     | 3780 |
| ctggcagcag ccactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag     | 3840 |

025CIP SEQ List ver2.txt

|  |      |
|--|------|
| ttcttgaagt ggtggcctaa ctacggctac actagaagga cagtatttgg tatctgcgct  | 3900 |
| ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg caaacaacc   | 3960 |
| accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga  | 4020 |
| tctcaagaag atcctttgat cttttctacg ggggtctgacg ctacgtggaa cgaaaactca | 4080 |
| cgtaagggga ttttggtcat gagattatca aaaaggatct tcacctagat ctttttaa    | 4140 |
| taaaaatgaa gttttaaatc aatctaaagt atatatgagt aaacttggtc tgacagttac  | 4200 |
| caatgcttaa tcagtgaggc acctatctca gcgatctgtc tatttcgttc atccatagtt  | 4260 |
| gcctgactcc ccgctcgtgta gataactacg atacgggagg gcttaccatc tggccccagt | 4320 |
| gctgcaatga taccgcgaga cccacgctca ccggctccag atttatcagc aataaaccag  | 4380 |
| ccagccggaa gggccgagcg cagaagtggc cctgcaactt tatccgcctc catccagtct  | 4440 |
| attaattggt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacg    | 4500 |
| gttgccattg ctacaggcatt cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc | 4560 |
| tccggttccc aacgatcaag gcgagttaca tgatcccca tgttgtgcaa aaaagcgg     | 4620 |
| agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg  | 4680 |
| gttatggcag cactgcataa ttctcttact gtcattgccat ccgtaagatg cttttctgtg | 4740 |
| actggtgagt actcaaccaa gtcattctga gaatagtgtg tgcggcgacc gagttgctct  | 4800 |
| tgccccggt caatacggga taataccgcg ccacatagca gaactttaaa agtgctcatc   | 4860 |
| attggaaaac gttcttcggg gcgaaaactc tcaaggatct taccgctgtt gagatccagt  | 4920 |
| tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt  | 4980 |
| tctgggtgag caaaaacagg aaggcaaaat gccgcaaaa aggggaataag ggcgacacgg  | 5040 |
| aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat  | 5100 |
| tgtctcatga gcggatacat atttgaatgt atttagaaaa ataaacaaat aggggttccg  | 5160 |
| cgcacatttc cccgaaaagt gccacctgac gcgccctgta gcggcgcat aagcgcggcg   | 5220 |
| gggtgtggtg ttacgcgcag cgtgaccgct acacttgcca gcgccctagc gcccgtcct   | 5280 |
| ttcgttttct tcccttcctt tctcgccacg ttcgccggct ttccccgtca agctctaaat  | 5340 |
| cgggggtccc ctttagggtt ccgatttagt gctttacggc acctcgacct caaaaaactt  | 5400 |
| gattaggggt atggttcacg tagtgggcca tcgccctgat agacggtttt tcgccctttg  | 5460 |
| acgttgaggt ccacgttctt taatagtggc ctcttggtcc aaactggaac aacactcaac  | 5520 |
| cctatctcgg tctattcttt tgatttataa gggattttgc cgatttcggc ctattgggtta | 5580 |
| aaaaatgagc tgatttaaca aaaatttaac gcgaatttta acaaaatatt aacgtttaca  | 5640 |
| atttcccatt cgccattcag gctgcgcaac tgttgggaag ggcgatcggg gcgggcctct  | 5700 |

## 025CIP SEQ List ver2.txt

|   |      |
|---|------|
| tcgctattac gccagcccaa gctaccatga taagtaagta atattaaggt acgggaggtg | 5760 |
| cttgagcgcg cgcgaataaa atatctttat ttccattaca tctgtgtgtt ggttttttgt | 5820 |
| gtgaatcgat agtactaaca tacgctctcc atcaaaacaa aacgaaacaa aacaaactag | 5880 |
| caaaataggc tgtccccagt gcaagtgcag gtgccagaac attt                  | 5924 |

<210> 4  
 <211> 5101  
 <212> DNA  
 <213> artificial

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|--|------|
| <400> 4  |      |
| ctagagtcgg ggcggccggc cgcttcgagc agacatgata agatacattg atgagtttgg  | 60   |
| acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat  | 120  |
| tgctttattt gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca  | 180  |
| ttttatgttt cagggttcagg gggaggtgtg ggaggttttt taaagcaagt aaaacctcta | 240  |
| caaatgtggt aaaatcgata aggatcaatt cggcttcagg taccgtcgac gatgtaggtc  | 300  |
| acggtctcga agccgcggtg cgggtgccag ggcgtgccct tgggctcccc gggcgcgtag  | 360  |
| tccacctcac ccattctggtc catcatgatg aacgggtcga ggtggcggtg gttgatcccc | 420  |
| gcgaacgcgc ggcgcaccgg gaagccctcg ccctcgaaac cgctgggcgc ggtggtcacg  | 480  |
| gtgagcacgg gacgtgcgac ggcgtcggcg ggtgcggata cgcggggcag cgtcagcggg  | 540  |
| ttctcgacgg tcacggcggg catgtcgaca gccgaattga tccgtcgacc gatgcccttg  | 600  |
| agagccttca acccagtcag ctccctccgg tgggcgcggg gcatgactat cgtcgccgca  | 660  |
| cttatgactg tcttctttat catgcaactc gtaggacagg tgccggcagc gctcttccgc  | 720  |
| ttcctcgctc actgactcgc tgcgctcggt cgcttcggctg cggcgagcgg tatcagctca | 780  |
| ctcaaaggcg gtaatacggg tatccacaga atcaggggat aacgcaggaa agaacatgtg  | 840  |
| agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca  | 900  |
| taggctccgc cccctgacg agcatcaca aaatcgacgc tcaagtcaga ggtggcgaaa    | 960  |
| cccgcagga ctataaagat accaggcggt tccccctgga agctccctcg tgcgctctcc   | 1020 |
| tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc  | 1080 |
| gctttctcaa tgctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct  | 1140 |
| gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg  | 1200 |
| tcttgagtcc aaccgggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag  | 1260 |
| gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggg ggcctaacta  | 1320 |
| cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg  | 1380 |
| aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt  | 1440 |

## 025CIP SEQ List ver2.txt

|  |      |
|--|------|
| tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt  | 1500 |
| ttctacgggg tctgacgctc agtggaacga aaactcacgt taagggattt tggatcatgag | 1560 |
| attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaataaat  | 1620 |
| ctaaagtata tatgagtaaa cttgggtctga cagttaccaa tgcttaatca gtgaggcacc | 1680 |
| tatctcagcg atctgtctat ttcgttcacg catagttgcc tgactccccg tcgtgtagat  | 1740 |
| aactacgata cgggagggtc taccatctgg cccagtgct gcaatgatac cgcgagaccc   | 1800 |
| acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggc ccgagcgcag  | 1860 |
| aagtggctct gcaactttat ccgcctccat ccagtctatt aattgttgcc ggggaagctag | 1920 |
| agtaagtagt tcgccagtta atagtttgcg caacgttggt gccattgcta caggcatcgt  | 1980 |
| ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg  | 2040 |
| agttacatga tccccatgt tgtgcaaaaa agcgggttagc tccttcgggc ctccgatcgt  | 2100 |
| tgtcagaagt aagttggccg cagtgttatc actcatgggt atggcagcac tgcataattc  | 2160 |
| tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc  | 2220 |
| attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa  | 2280 |
| taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacgtt cttcggggcg  | 2340 |
| aaaactctca aggatcttac cgctgttgag atccagttcg atgtaacca ctcgtgcacc   | 2400 |
| caactgatct tcagcatctt ttactttcac cagcgtttct gggtagcaa aaacaggaag   | 2460 |
| gcaaaatgcc gcaaaaaagg gaataagggc gacacgaaa tgttgaatac tcatactctt   | 2520 |
| cctttttcaa tattattgaa gcatttatca gggttattgt ctcagtagcg gatacatatt  | 2580 |
| tgaatgtatt tagaaaaata aacaaatagg ggttccgcgc acatttcccc gaaaagtgcc  | 2640 |
| acctgacgcg ccctgtagcg gcgcatttag cgcggcgggt gtggtggtta cgcgcagcgt  | 2700 |
| gaccgctaca cttgccagcg ccctagcgcc cgctccttcc gctttcttcc cttcctttct  | 2760 |
| cgccacgttc gccggctttc cccgtcaagc tctaaatcgg gggctccctt tagggttccg  | 2820 |
| atthagtgct ttacggcacc tcgaccccaa aaaacttgat tagggtagtg gttcacgtag  | 2880 |
| tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca cgttctttaa  | 2940 |
| tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcgggtc attcttttga  | 3000 |
| tttataaggg attttgccga tttcggccta ttggttaaaa aatgagctga ttttaacaaa  | 3060 |
| atttaacgcg aattttaaca aaatattaac gtttacaatt tccattcgc cattcaggct   | 3120 |
| gcgcaactgt tgggaagggc gatcgggtcg ggcctcttcg ctattacgcc agcccaagct  | 3180 |
| accatgataa gtaagtaata ttaagggtac ggaggtactt ggagcggccg caataaaata  | 3240 |
| tctttatctt cattacatct gtgtgttggt tttttgtgtg aatcgatagt actaacatac  | 3300 |
| gctctccatc aaaacaaaac gaaacaaaac aaactagcaa aataggctgt cccagtgca   | 3360 |

## 025CIP SEQ List ver2.txt

|   |      |
|---|------|
| agtgcaggtg ccagaacatt tctctatcga taggtaccga gctcttacgc gtgctagccc   | 3420 |
| tcgagcagga tctatacatt gaatcaatat tggcaattag ccatattagt cattgggttat  | 3480 |
| atagcataaa tcaatattgg ctattggcca ttgcatacgt tgtatctata tcataatatg   | 3540 |
| tacatttata ttggctcatg tccaatatga ccgccatggt gacattgatt attgactagt   | 3600 |
| tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt   | 3660 |
| acataactta cggtaaattg cccgcctggc tgaccgcca acgacccccg cccattgacg    | 3720 |
| tcaataatga cgtatgttcc catagtaacg ccaataggga ctttccattg acgtcaatgg   | 3780 |
| gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccaaagt  | 3840 |
| ccgcccccta ttgacgtcaa tgacggtaaa tggcccgccg ggcattatgc ccagtacatg   | 3900 |
| accttacggg actttcctac ttggcagtac atctacgtat tagtcatcgc tattaccatg   | 3960 |
| gtgatgcggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt   | 4020 |
| ccaagtctcc accccattga cgtcaatggg agtttgttt ggcacaaaaa tcaacgggac    | 4080 |
| tttccaaaat gtcgtaacaa ctccgcccc ttgacgcaaa tgggcggtag gcgtgtacgg    | 4140 |
| tgggaggtct atataagcag agctcgttta gtgaaccgtc agatcgctg gagacgcat     | 4200 |
| ccacgctgtt ttgacctca tagaagacac cgggaccgat ccagcctccc ctggaagctc    | 4260 |
| gactctaggg gctcgagatc tgcgatctaa gtaagcttgc atgcctgcag gtcggccgcc   | 4320 |
| acgaccggtg ccgccaccat cccctgacct acgcccctga cccctcaca ggagacgacc    | 4380 |
| ttccatgacc gagtacaagc ccacggtgcg cctcgccacc cgcgacgacg tccccgggc    | 4440 |
| cgtacgcacc ctgcccgcg cgttcgccga ctaccccgcc acgcgccaca ccgtcgacct    | 4500 |
| ggaccgccac atcgagcggg tcaccgagct gcaagaactc ttcctcacgc gcgtcgggct   | 4560 |
| cgacatcggc aagggtgtggg tcgcggacga cggcgccgcg gtggcgggtct ggaccacgcc | 4620 |
| ggagagcgtc gaagcggggg cgggtgttcgc cgagatcggc ccgcgcatgg ccgagttgag  | 4680 |
| cggttccccg ctggccgcg agcaacagat ggaaggctc ctggcgccgc accggcccaa     | 4740 |
| ggagcccgcg tggttcctgg ccaccgtcgg cgtctcgccc gaccaccagg gcaagggtct   | 4800 |
| gggcagcgcc gtcgtgctcc ccggagtggg ggcggccgag cgcgccccgg tgcccgcctt   | 4860 |
| cctggagacc tccgcgcccc gcaacctccc cttctacgag cggctcggct tcaccgtcac   | 4920 |
| cgccgacgtc gaggtgcccc aaggaccgcg cacctggtgc atgacccgca agcccgggtgc  | 4980 |
| ctgacgcccc cccacgacc cgcagcgccc gaccgaaagg agcgcacgac cccatggctc    | 5040 |
| cgaccgaagc cgacccgggc ggccccgccc accccgcacc cgccccgag gccaccgac     | 5100 |
| t   | 5101 |

## 025CIP SEQ List ver2.txt

<211> 5043  
 <212> DNA  
 <213> artificial

<400> 5  
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 acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat 120  
 tgctttattt gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca 180  
 ttttatgttt caggttcagg gggaggtgtg ggaggttttt taaagcaagt aaaacctcta 240  
 caaatgtggt aaaatcgata aggatcaatt cggttcgac tagtactgac ggacacaccg 300  
 aagccccggc ggcaaccctc agcggatgcc ccggggcttc acgttttccc aggtcagaag 360  
 cggttttcgg gagtagtgcc ccaactgggg taacctttga gttctctcag ttgggggcgt 420  
 agggtcgccg acatgacaca aggggttggt accgggggtg acacgtacgc gggtgcttac 480  
 gaccgtcagt cgcgcgagcg cgactagtag aagccgaatt gatccgtcga ccgatgccct 540  
 tgagagcctt caaccagtc agctccttcc ggtgggcgcg gggcatgact atcgtcgccg 600  
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 gcttcctcgc tctactgact gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct 720  
 cactcaaagg cggtaatagc gttatccaca gaatcagggg ataacgcagg aaagaacatg 780  
 tgagcaaaag gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc 840  
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 cctgttccga ccctgccgct taccggatac ctgtccgcct ttctcccttc gggaagcgtg 1020  
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 ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatc cggtaaactat 1140  
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 aggattagca gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac 1260  
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 ttttctacgg ggtctgacgc tcagtggaaac gaaaactcac gttaagggat tttggtcatg 1500  
 agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatac 1560  
 atctaagta tatatgagta aacttggtct gacagttacc aatgcttaat cagtgaggca 1620  
 cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag 1680  
 ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcgagac 1740

025CIP SEQ List ver2.txt

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ccacgctcac  | cggctccaga  | tttatcagca  | ataaaccagc  | cagccggaag  | ggccgagcgc  | 1800 |
| agaagtgggtc | ctgcaacttt  | atccgcctcc  | atccagtcta  | ttaattgttg  | ccgggaagct  | 1860 |
| agagtaagta  | gttcgccagt  | taatagtttg  | cgcaacgttg  | ttgccattgc  | tacaggcatc  | 1920 |
| gtggtgtcac  | gctcgtcgtt  | tggtatggct  | tcattcagct  | ccggttccca  | acgatcaagg  | 1980 |
| cgagttacat  | gatccccc    | gttgtgcaaa  | aaagcgggta  | gctccttcgg  | tcctccgatc  | 2040 |
| gttgtcagaa  | gtaagttagc  | cgcagtgtta  | tcactcatgg  | ttatggcagc  | actgcataat  | 2100 |
| tctcttactg  | tcatgccatc  | cgtaagatgc  | ttttctgtga  | ctggtgagta  | ctcaaccaag  | 2160 |
| tcattctgag  | aatagtgtat  | gcggcgaccg  | agttgtcttt  | gcccggcgctc | aatacgggat  | 2220 |
| aataccgcgc  | cacatagcag  | aactttaaaa  | gtgctcatca  | ttggaaaacg  | ttcttcgggg  | 2280 |
| cgaaaactct  | caaggatctt  | accgctgttg  | agatccagtt  | cgatgtaacc  | cactcgtgca  | 2340 |
| cccaactgat  | cttcagcatc  | ttttactttc  | accagcggtt  | ctgggtgagc  | aaaaacagga  | 2400 |
| aggcaaaatg  | ccgcaaaaaa  | gggaataagg  | gcgacacgga  | aatgttgaat  | actcatactc  | 2460 |
| ttcctttttc  | aatattattg  | aagcatttat  | cagggttatt  | gtctcatgag  | cggatacata  | 2520 |
| tttgaatgta  | tttagaaaaa  | taaacaaata  | ggggttccgc  | gcacatttcc  | ccgaaaagtg  | 2580 |
| ccacctgacg  | cgccctgtag  | cggcgcatta  | agcgcggcgg  | gtgtggtggt  | tacgcgcagc  | 2640 |
| gtgaccgcta  | cacttgccag  | cgccctagcg  | cccgtctctt  | tcgctttctt  | cccttccttt  | 2700 |
| ctcgccacgt  | tcgcccggctt | tccccgtcaa  | gctctaaatc  | gggggctccc  | tttaggggtc  | 2760 |
| cgatttagtg  | ctttacggca  | cctcgacccc  | aaaaaacttg  | attaggggtga | tggttcacgt  | 2820 |
| agtgggcat   | cgccctgata  | gacggttttt  | cgccctttga  | cgttggagtc  | cacgttcttt  | 2880 |
| aatagtggac  | tcttgttcca  | aactggaaca  | acactcaacc  | ctatctcggg  | ctattctttt  | 2940 |
| gatttataag  | ggattttgcc  | gatttcggcc  | tattgggttaa | aaaatgagct  | gatttaacaa  | 3000 |
| aaatttaacg  | cgaattttta  | caaaatatta  | acgtttacaa  | tttccattc   | gccattcagg  | 3060 |
| ctgcgcaact  | gttgggaagg  | gcgatcgggtg | cgggcctctt  | cgctattacg  | ccagcccaag  | 3120 |
| ctaccatgat  | aagtaagtaa  | tattaaggta  | cgggaggtac  | ttggagcggc  | cgcaataaaa  | 3180 |
| tatctttatt  | ttcattacat  | ctgtgtgttg  | gttttttgtg  | tgaatcgata  | gtactaacat  | 3240 |
| acgctctcca  | tcaaaacaaa  | acgaaacaaa  | acaaactagc  | aaaataggct  | gtccccagtg  | 3300 |
| caagtgcagg  | tgccagaaca  | tttctctatc  | gataggtacc  | gagctcttac  | gcgtgctagc  | 3360 |
| cctcgagcag  | gatctataca  | ttgaatcaat  | attggcaatt  | agccatatta  | gtcattgggtt | 3420 |
| atatagcata  | aatcaatatt  | ggctattggc  | cattgcatac  | gttgatctta  | tatcataata  | 3480 |
| tgtacattta  | tattggctca  | tgtccaatat  | gaccgccatg  | ttgacattga  | ttattgacta  | 3540 |
| gttattaata  | gtaatcaatt  | acgggggtcat | tagttcatag  | cccatatatg  | gagttccgcg  | 3600 |
| ttacataact  | tacggtaa    | ggcccgctg   | gctgaccgcc  | caacgacccc  | cgccattga   | 3660 |

## 025CIP SEQ List ver2.txt

|  |      |
|--|------|
| cgtcaataat gacgtatggt cccatagtaa cgccaatagg gactttccat tgacgtcaat    | 3720 |
| gggtggagta ttacggtaa actgcccact tggcagtaca tcaagtgtat catatgccaa     | 3780 |
| gtccgcccc tattgacgtc aatgacggta aatggcccgc ctggcattat gcccagtaca     | 3840 |
| tgaccttacg ggactttcct acttggcagt acatctacgt attagtcacg gctattacca    | 3900 |
| tggtgatgcg gttttggcag tacatcaatg ggcgtggata gcggtttgac tcacggggat    | 3960 |
| ttccaagtct ccacccatt gacgtcaatg ggagtttgtt ttggcaccaa aatcaacggg     | 4020 |
| actttccaaa atgtcgtaac aactccgccc cattgacgca aatgggagggt aggcgtgtac   | 4080 |
| gggtggagggt ctatataagc agagctcgtt tagtgaaccg tcagatcgcc tggagacgcc   | 4140 |
| atccacgctg ttttgacctc catagaagac accgggaccg atccagcctc ccctcgaagc    | 4200 |
| tcgactctag gggctcgaga tctgcgatct aagtaagctt gcatgcctgc aggtcggccg    | 4260 |
| ccacgaccgg tgccgccacc atcccctgac ccacgcccct gacccctcac aaggagacga    | 4320 |
| ccttccatga ccgagtacaa gcccacggtg cgccctcgca cccgcgacga cgtcccccg     | 4380 |
| gccgtacgca ccctcgccgc cgcgttcgcc gactaccccg ccacgcgcca caccgtcgac    | 4440 |
| ccggaccgcc acatcgagcg ggtcaccgag ctgcaagaac tcttcctcac gcgcgtcggg    | 4500 |
| ctcgacatcg gcaagggtgtg ggtcgcggac gacggcgccg cgggtggcgggt ctggaccacg | 4560 |
| ccggagagcg tcgaagcggg ggcggtgttc gccgagatcg gcccgcgcat ggccgagttg    | 4620 |
| agcggttccc ggctggccgc gcagcaacag atggaaggcc tcctggcgcc gcaccggccc    | 4680 |
| aaggagcccc cgtggttccct ggccaccgtc ggcgtctcgc ccgaccacca gggcaagggt   | 4740 |
| ctgggcagcg ccgtcgtgct ccccgagtg gaggcggccg agcgcgccgg ggtgcccgcc     | 4800 |
| ttcctggaga cctccgcgcc ccgcaacctc cccttctacg agcggtctcg cttcaccgtc    | 4860 |
| accgccgacg tcgaggtgcc cgaaggaccg cgcacctggt gcatgaccgg caagcccgggt   | 4920 |
| gcctgacgcc cgccccacga cccgcagcgc ccgaccgaaa ggagcgcacg accccatggc    | 4980 |
| tccgaccgaa gccgaccggg gcggccccgc cgaccccgca cccgcccccg agggccaccg    | 5040 |
| act  | 5043 |

<210> 6  
 <211> 5041  
 <212> DNA  
 <213> artificial

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|--|-----|
| <400> 6  |     |
| ctagagtcgg ggcggccggc cgcttcgagc agacatgata agatacattg atgagtttgg  | 60  |
| acaaaccaca actagaatgc agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat  | 120 |
| tgctttattt gtaaccatta taagctgcaa taaacaagtt aacaacaaca attgcattca  | 180 |
| ttttatgttt caggttcagg gggagggtgtg ggagggtttt taaagcaagt aaaacctcta | 240 |



## 025CIP SEQ List ver2.txt

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| caaatgtggt | aaaatcgata | aggatcaatt  | cggcttcagg  | taccgtcgac  | gatgtaggtc  | 300  |
| acggtctcga | agccgcggtg | cgggtgccag  | ggcgtgccct  | tgggctcccc  | gggcgcgtac  | 360  |
| tccacctcac | ccatctggtc | catcatgatg  | aacgggtcga  | ggtggcggtg  | gttgatcccc  | 420  |
| gcgaacgcgc | ggcgcaccgg | gaagccctcg  | ccctcgaaac  | cgctgggcgc  | ggtggtcacg  | 480  |
| gtgagcacgg | gacgtgcgac | ggcgtcggcg  | ggtgcggata  | cgcggggcag  | cgtcagcggg  | 540  |
| ttctcgacgg | tcacggcggg | catgtcgaca  | gccgaattga  | tccgtcgacc  | gatgcccttg  | 600  |
| agagccttca | acccagtcag | ctccttccgg  | tgggcgcggg  | gcatgactat  | cgtcgccgca  | 660  |
| cttatgactg | tcttctttat | catgcaactc  | gtaggacagg  | tgccggcagc  | gctcttccgc  | 720  |
| ttcctcgctc | actgactcgc | tgcgctcggg  | cgttcggctg  | cggcgagcgg  | tatcagctca  | 780  |
| ctcaaaggcg | gtaatacggg | tatccacaga  | atcaggggat  | aacgcaggaa  | agaacatgtg  | 840  |
| agcaaaaggc | cagcaaaagg | ccaggaaccg  | taaaaaggcc  | gcgttgctgg  | cgtttttcca  | 900  |
| taggctccgc | ccccctgacg | agcatcacia  | aaatcgacgc  | tcaagtcaga  | ggtggcgaaa  | 960  |
| cccgacagga | ctataaagat | accaggcggt  | tccccctgga  | agctccctcg  | tgcgctctcc  | 1020 |
| tgttccgacc | ctgccgctta | ccggatacct  | gtccgccttt  | ctcccttcgg  | gaagcgtggc  | 1080 |
| gctttctcaa | tgctcacgct | gtaggtatct  | cagttcgggtg | taggtcgttc  | gctccaagct  | 1140 |
| gggctgtgtg | cacgaacccc | ccgttcagcc  | cgaccgctgc  | gccttatccg  | gtaactatcg  | 1200 |
| tcttgagtcc | aaccgcggtg | gacacgactt  | atcgccactg  | gcagcagcca  | ctggtaacag  | 1260 |
| gattagcaga | gcgaggtatg | taggcgggtg  | tacagagttc  | ttgaagtggg  | ggcctaacta  | 1320 |
| cggctacact | agaaggacag | tatttggtat  | ctgcgctctg  | ctgaagccag  | ttaccttcgg  | 1380 |
| aaaaagagtt | ggtagctctt | gatccggcaa  | acaaaccacc  | gctggtagcg  | gtgggttttt  | 1440 |
| tgtttgcaag | cagcagatta | cgcgcagaaa  | aaaaggatct  | caagaagatc  | ctttgatctt  | 1500 |
| ttctacgggg | tctgacgctc | agtggaacga  | aaactcacgt  | taagggaattt | tgggtcatgag | 1560 |
| attatcaaaa | aggatcttca | cctagatcct  | tttaaattaa  | aatgaagtt   | ttaaatcaat  | 1620 |
| ctaaagtata | tatgagtaaa | cttgggtctga | cagttaccaa  | tgcttaatca  | gtgaggcacc  | 1680 |
| tatctcagcg | atctgtctat | ttcggtcatc  | catagttgcc  | tgactccccg  | tcgtgtagat  | 1740 |
| aactacgata | cgggagggct | taccatctgg  | ccccagtgtc  | gcaatgatac  | cgcgagaccc  | 1800 |
| acgctcaccg | gctccagatt | tatcagcaat  | aaaccagcca  | gccggaaggg  | ccgagcgag   | 1860 |
| aagtggctct | gcaactttat | ccgcctccat  | ccagtctatt  | aattgttgcc  | gggaagctag  | 1920 |
| agtaagtagt | tcgccagtta | atagtttgcg  | caacgttggt  | gccattgcta  | caggcatcgt  | 1980 |
| ggtgtcacgc | tcgtcgtttg | gtatggcttc  | attcagctcc  | ggttcccaac  | gatcaaggcg  | 2040 |
| agttacatga | tccccatgt  | tgtgcaaaaa  | agcgggttagc | tccttcgggtc | ctccgatcgt  | 2100 |

## 025CIP SEQ List ver2.txt

|  |      |
|--|------|
| tgtcagaagt aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc  | 2160 |
| tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact caaccaagtc  | 2220 |
| attctgagaa tagtgtatgc ggcgaccgag ttgtctttgc ccggcgtcaa tacgggataa  | 2280 |
| taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaaaacggt cttcggggcg  | 2340 |
| aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc  | 2400 |
| caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag  | 2460 |
| gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac tcataactctt | 2520 |
| cctttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt  | 2580 |
| tgaatgtatt tagaaaaata aacaaatagg gggtccgcgc acatttcccc gaaaagtgcc  | 2640 |
| acctgacgcg ccctgtagcg gcgcattaag cgcggcgggt gtggtggtta cgcgacgcgt  | 2700 |
| gaccgctaca cttgccagcg ccctagcgcc cgctcctttc gctttcttcc cttcctttct  | 2760 |
| cgccacgttc gccggctttc cccgtcaagc tctaaatcgg gggctccctt tagggttccg  | 2820 |
| atttagtgct ttacggcacc tcgaccccaa aaaacttgat tagggtgatg gttcacgtag  | 2880 |
| tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca cgttctttaa  | 2940 |
| tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcggctt attcttttga  | 3000 |
| tttataaggg attttgccga tttcggccta ttgggttaaaa aatgagctga ttttaacaaa | 3060 |
| atttaacgcg aattttaaca aaatattaac gtttacaatt tcccattcgc cattcaggct  | 3120 |
| gcgcaactgt tgggaagggc gatcgggtcg ggcctcttcg ctattacgcc agcccaagct  | 3180 |
| accatgataa gtaagtaata ttaagggtacg ggaggtactt ggagcggccg caataaaata | 3240 |
| tctttatttt cattacatct gtgtgttgggt tttttgtgtg aatcgatagt actaacatac | 3300 |
| gctctccatc aaaacaaaac gaaacaaaac aaactagcaa aataggctgt cccagtgca   | 3360 |
| agtgcagggt ccagaacatt tctctatcga taggtaccga gctcttacgc gtgctagccc  | 3420 |
| tcgagcagga tctatacatt gaatcaatat tggcaattag ccatattagt cattgggttat | 3480 |
| atagcataaa tcaatattgg ctattggcca ttgcatacgt tgtatctata tcataatatg  | 3540 |
| tacatttata ttggctcatg tccaatatga ccgccatgtt gacattgatt attgactagt  | 3600 |
| tattaatagt aatcaattac ggggtcatta gttcatagcc catatatgga gttccgcgtt  | 3660 |
| acataactta cggtaaatgg cccgcctggc tgaccgcca acgacccccg cccattgacg   | 3720 |
| tcaataatga cgtatgttcc catagtaacg ccaatagggg ctttcattg acgtcaatgg   | 3780 |
| gtggagtatt tacggtaaac tgcccacttg gcagtacatc aagtgtatca tatgccaagt  | 3840 |
| ccgcccccta ttgacgtcaa tgacggtaaa tggcccgctt ggcattatgc ccagtacatg  | 3900 |
| accttacggg actttcctac ttggcagtac atctacgtat tagtcatcgc tattaccatg  | 3960 |
| gtgatgcgggt tttggcagta catcaatggg cgtggatagc ggtttgactc acggggattt | 4020 |

## 025CIP SEQ List ver2.txt

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ccaagtctcc | acccattga  | cgtcaatggg | agtttgtttt | ggcaccaaaa | tcaacgggac | 4080 |
| tttccaaaat | gtcgtataca | ctccgcccc  | ttgacgcaaa | tgggcggtag | gcgtgtacgg | 4140 |
| tgggaggtct | atataagcag | agctcgttta | gtgaaccgtc | agatcgcttg | gagacgccat | 4200 |
| ccacgctgtt | ttgacctca  | tagaagacac | cgggaccgat | ccagcctccc | ctcgaagctc | 4260 |
| gactctaggg | gctcgagatc | cccgggtacc | ggtcgccacc | atggtgagca | agggcgagga | 4320 |
| gctgttcacc | ggggtggtgc | ccatcctggt | cgagctggac | ggcgacgtaa | acggccacaa | 4380 |
| gttcagcgtg | tccggcgagg | gcgagggcga | tgccacctac | ggcaagctga | ccctgaagtt | 4440 |
| catctgcacc | accggcaagc | tgcccgtgcc | ctggcccacc | ctcgtgacca | ccctgacctt | 4500 |
| cggcgtgcag | tgcttcagcc | gctaccccga | ccacatgaag | cagcacgact | tcttcaagtc | 4560 |
| cgccatgccc | gaaggctacg | tccaggagcg | caccatcttc | ttcaaggacg | acggcaacta | 4620 |
| caagaccgcg | gccgaggtga | agttcgaggg | cgacaccctg | gtgaaccgca | tcgagctgaa | 4680 |
| gggcatcgac | ttcaaggagg | acggcaacat | cctggggcac | aagctggagt | acaactacaa | 4740 |
| cagccacaac | gtctatatca | tggccgacaa | gcagaagaac | ggcatcaagg | tgaacttcaa | 4800 |
| gatccgccac | aacatcgagg | acggcagcgt | gcagctcgcc | gaccactacc | agcagaacac | 4860 |
| ccccatcggc | gacggccccg | tgctgctgcc | cgacaaccac | tacctgagca | cccagtccgc | 4920 |
| cctgagcaaa | gaccccaacg | agaagcgcg  | tcacatggtc | ctgctggagt | tcgtgaccgc | 4980 |
| cgccgggatc | actctcggca | tggacgagct | gtacaagtaa | agcggccgct | cgagcatgca | 5040 |
| t          |            |            |            |            |            | 5041 |

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| cttgccgatg | aaaggatata acagtctgta taacagtctg tgaggaaata cttggtattt 120   |
| cttctgatca | gtgtttttat aagtaatgtt gaatattgga taaggctgtg tgtcctttgt 180   |
| cttgggagac | aaagcccaca gcaggtggtg gttgggggtg tggcagctca gtgacaggag 240   |
| aggttttttt | gcctgttttt tttttttttt ttttttttaa gtaagggtgtt cttttttctt 300  |
| agtaaat    | ctactggact gtatgttttg acaggtcaga aacatttctt caaaagaaga 360   |
| accttttgga | aactgtacag cccttttctt tcattccctt tttgctttct gtgccaatgc 420   |
| ctttggttct | gattgcatta tggaaaacgt tgatcggaac ttgagggtttt tatttatagt 480  |
| gtggcttgaa | agcttgata gctgttgta cacgagatac cttattaagt ttaggccagc 540     |
| ttgatgcttt | atTTTTTTccc tttgaagtag tgagcgttct ctgggtttttt tcctttgaaa 600 |

## 025CIP SEQ List ver2.txt

|  |      |
|--|------|
| ctggtgaggc ttagatTTTT ctaatgggat tttttacctg atgatctagt tgcataccca    | 660  |
| aatgcttgta aatgtttttcc tagttaacat gttgataact tcggattttac atgttggtata | 720  |
| tacttgatcat ctgtgttttct agtaaaaaata tatggcattt atagaaatac gtaattcctg | 780  |
| atttcctttt tttttatctc tatgctctgt gtgtacaggt caaacagact tcactcctat    | 840  |
| ttttatttat agaattttat atgcagtctg tcgttggttc ttgtgttgta aggatacagc    | 900  |
| cttaaatttc ctagagcgat gctcagtaag gcgggttggtc acatgggttc aaatgtaaaa   | 960  |
| cgggcacgtt tggctgctgc cttcccagaga tccaggacac taaactgctt ctgcactgag   | 1020 |
| gtataaatcg cttcagatcc caggggaagtg cagatccacg tgcataattct taaagaagaa  | 1080 |
| tgaatacttt ctaaaatatt ttggcatagg aagcaagctg catggatttg tttgggactt    | 1140 |
| aaattatttt ggtaacggag tgcataagggt ttaaacacag ttgcagcatg ctaacgagtc   | 1200 |
| acagcgttta tgcagaagtg atgcctggat gcctgttgca gctgtttacg gcactgcctt    | 1260 |
| gcagtgcagca ttgcagatag ggggtggggtg ctttgtgtcg tgttcccaca cgctgccaca  | 1320 |
| cagccacctc ccggaacaca tctcacctgc tgggtacttt tcaaaccatc ttagcagtag    | 1380 |
| tagatgagtt actatgaaac agagaagttc ctcagttgga tattctcatg ggatgtcttt    | 1440 |
| tttcccatgt tgggcaaagt atgataaagc atctctattt gtaaattatg cacttgtag     | 1500 |
| ttcctgaatc ctttctatag caccacttat tgcagcaggt gtaggctctg gtgtggcctg    | 1560 |
| tgtctgtgct tcaatctttt aaagcttctt tggaaataca ctgacttgat tgaagtctct    | 1620 |
| tgaagatagt aaacagtact tacctttgat cccaatgaaa tcgagcattt cagttgtaaa    | 1680 |
| agaattccgc ctattcatac catgtaatgt aattttacac cccagtgct gacactttgg     | 1740 |
| aatatattca agtaatagac tttggcctca ccctcttggt tactgtattt tgtaatagaa    | 1800 |
| aatattttta actgtgcata tgattattac attatgaaag agacattctg ctgatcttca    | 1860 |
| aatgtaagaa aatgaggagt gcgtgtgctt ttataaatac aagtgattgc aaattagtgc    | 1920 |
| aggtgtcctt aaaaaaaaaa aaaaaaagta atataaaaag gaccagggtg tttacaagtg    | 1980 |
| aaatacattc ctatttggtg aacagttaca tttttatgaa gattaccagc gctgctgact    | 2040 |
| ttctaaacat aaggctgtat tgtcttcctg taccattgca tttcctcatt cccaatttgc    | 2100 |
| acaaggatgt ctgggtaaac tattcaagaa atggctttga aatacagcat gggagcttgt    | 2160 |
| ctgagttgga atgcagagtt gactgcaaa atgtcaggaa atggatgtct ctcagaatgc     | 2220 |
| ccaactcaa aggattttat atgtgtatat agtaagcagt ttcctgattc cagcaggcca     | 2280 |
| aagagtctgc tgaatgttgt gttgccggag acctgtattt ctcaacaagg taagatggta    | 2340 |
| tcctagcaac tgcggatttt aatacatttt cagcagaagt acttagttaa tctctacctt    | 2400 |
| tagggatcgt ttcattcttt ttagatgtta tacttgaaat actgcataac ttttagcttt    | 2460 |

## 025CIP SEQ List ver2.txt

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| catgggttcc | tttttttcag  | ccttttaggag | actgttaagc  | aatttgctgt  | ccaacttttg | 2520 |
| tgttggtcct | aaactgcaat  | agtagtttac  | cttgatttga  | agaaataaag  | accattttta | 2580 |
| tattaaaaaa | tacttttgtc  | tgtcttcatt  | ttgacttgtc  | tgatatcctt  | gcagtgccca | 2640 |
| ttatgtcagt | tctgtcagat  | attcagacat  | caaaacttaa  | cgtgagctca  | gtggagttac | 2700 |
| agctgcgggt | ttgatgctgt  | tattattttct | gaaactagaa  | atgatgttgt  | cttcatctgc | 2760 |
| tcatcaaaca | cttcatgcag  | agtgttaaggc | tagtgagaaa  | tgcatacatt  | tattgatact | 2820 |
| tttttaaagt | caacttttta  | tcagattttt  | ttttcatttg  | gaaatatatt  | gttttctaga | 2880 |
| ctgcatagct | tctgaatctg  | aaatgcagtc  | tgattggcat  | gaagaagcac  | agcactcttc | 2940 |
| atcttactta | aacttcattt  | tggaatgaag  | gaagttaagc  | aagggcacag  | gtccatgaaa | 3000 |
| tagagacagt | gcgctcagga  | gaaagtgaac  | ctggatttct  | ttggctagtg  | ttctaaatct | 3060 |
| gtagtgagga | aagtaacacc  | cgattccttg  | aaagggctcc  | agctttaatg  | cttccaaatt | 3120 |
| gaaggtggca | ggcaacttgg  | ccactggtta  | tttactgcat  | tatgtctcag  | tttcgcagct | 3180 |
| aacctggctt | ctccactatt  | gagcatggac  | tatagcctgg  | cttcagaggc  | caggtgaagg | 3240 |
| ttgggatggg | tggaaggagt  | gctgggctgt  | ggctgggggg  | actgtgggga  | ctccaagctg | 3300 |
| agcttggggg | gggcagcaca  | gggaaaagtg  | tgggtaacta  | tttttaagta  | ctgtgttgca | 3360 |
| aacgtctcat | ctgcaaatac  | gtaggggtgtg | tactctcgaa  | gattaacagt  | gtgggttcag | 3420 |
| taatatatgg | atgaattcac  | agtggaagca  | ttcaagggta  | gatcatctaa  | cgacaccaga | 3480 |
| tcatcaagct | atgattggaa  | gcggtatcag  | aagagcgagg  | aaggtaagca  | gtcttcatat | 3540 |
| gttttcctc  | cacgtaaagc  | agtctgggaa  | agtagcacc   | cttgagcaga  | gacaaggaaa | 3600 |
| taattcagga | gcatgtgcta  | ggagaacttt  | cttgctgaat  | tctacttgca  | agagctttga | 3660 |
| tgcctggctt | ctggtgcctt  | ctgcagcacc  | tgcaaggccc  | agagcctgtg  | gtgagctgga | 3720 |
| gggaaagatt | ctgctcaagt  | ccaagcttca  | gcaggctcatt | gtctttgctt  | cttccccag  | 3780 |
| cactgtgcag | cagagtggaa  | ctgatgtcga  | agcctcctgt  | ccactacctg  | ttgctgcagg | 3840 |
| cagactgctc | tcagaaaaag  | agagctaact  | ctatgccata  | gtctgaagggt | aaaatggggt | 3900 |
| ttaaaaaaga | aaacacaaaag | gcaaaaaccgg | ctgccccatg  | agaagaaagc  | agtggtaaac | 3960 |
| atggtagaaa | aggtgcagaa  | gccccaggc   | agtgtgacag  | gccccctctg  | ccacctagag | 4020 |
| gcgggaacaa | gcttccctgc  | ctagggctct  | gcccgcgaag  | tgcgtgtttc  | tttggtgggt | 4080 |
| tttgtttggc | gtttggtttt  | gagatttaga  | cacaagggaa  | gcctgaaagg  | aggtgttggg | 4140 |
| cactattttg | gtttgtaaag  | cctgtacttc  | aaatatatat  | tttgtagagg  | agtgtagcga | 4200 |
| attggccaat | ttaaaaataaa | gttgcaagag  | attgaaggct  | gagtagttga  | gagggtaaca | 4260 |
| cgtttaatga | gatcttctga  | aactactgct  | tctaaacact  | tgtttgagtg  | gtgagacctt | 4320 |
| ggataggtga | gtgctcttgt  | tacatgtctg  | atgcacttgc  | ttgtcctttt  | ccatccacat | 4380 |

## 025CIP SEQ List ver2.txt

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ccatgcattc  | cacatccacg  | catttgtcac  | ttatcccata  | tctgtcatat | ctgacataacc | 4440 |
| tgtctcttcg  | tcacttggtc  | agaagaaaca  | gatgtgataa  | tccccagccg | ccccaagttt  | 4500 |
| gagaagatgg  | cagttgcttc  | tttccctttt  | tcctgctaag  | taaggatttt | ctcctggctt  | 4560 |
| tgacacctca  | cgaaatagtc  | ttcctgcctt  | acattctggg  | cattatttca | aatatctttg  | 4620 |
| gagtgcgctg  | ctctcaagtt  | tgtgtcttcc  | tactcttaga  | gtgaatgctc | ttagagtga   | 4680 |
| agagaaggaa  | gagaagatgt  | tggccgcagt  | tctctgatga  | acacacctct | gaataatggc  | 4740 |
| caaagggtggg | tgggtttctc  | tgaggaacgg  | gcagcgtttg  | cctctgaaag | caaggagctc  | 4800 |
| tgcgaggattg | cagttatttt  | gcaactgatg  | gtggaactgg  | tgcttaaagc | agattcccta  | 4860 |
| ggttccctgc  | tacttctttt  | ccttcttggc  | agtcagttta  | tttctgacag | acaaacagcc  | 4920 |
| acccccactg  | caggcttaga  | aagtatgtgg  | ctctgcctgg  | gtgtgttaca | gctctgccct  | 4980 |
| ggtgaaaggg  | gattaaaacg  | ggcaccattc  | atcccaaaca  | ggatcctcat | tcatggatca  | 5040 |
| agctgtaagg  | aacttgggct  | ccaacctcaa  | aacattaatt  | ggagtacgaa | tgtaattaaa  | 5100 |
| actgcattct  | cgcattccta  | agtcatttag  | tctggactct  | gcagcatgta | ggtcggcagc  | 5160 |
| ttccactttc  | tcaaagacca  | ctgatggagg  | agtagtaaaa  | atggagaccg | attcagaaca  | 5220 |
| accaacggag  | tgttgccgaa  | gaaactgatg  | gaaataatgc  | atgaattgtg | tggtggacat  | 5280 |
| tttttttaaa  | tacataaact  | acttcaaatg  | aggtcggaga  | aggtcagtgt | tttattagca  | 5340 |
| gccataaaac  | cagggtgagcg | agtaccattt  | ttctctacaa  | gaaaaacgat | tctgagctct  | 5400 |
| gcgtaagtat  | aagttctcca  | tagcggctga  | agctcccccc  | tggctgcctg | ccatctcagc  | 5460 |
| tggagtgcag  | tgccatttcc  | ttgggggtttc | tctcacagca  | gtaatgggac | aatacttcac  | 5520 |
| aaaaattctt  | tcttttctcg  | tcatgtggga  | tccctactgt  | gccctcctgg | ttttacgtta  | 5580 |
| ccccctgact  | gttccattca  | gcggtttgga  | aagagaaaaa  | gaatttggaa | ataaaacatg  | 5640 |
| tctacgttat  | cacctcctcc  | agcattttgg  | tttttaatta  | tgtcaataac | tggcttagat  | 5700 |
| ttggaaatga  | gaggggggtt  | ggtgtattac  | cgaggaacaa  | aggaaggctt | atataaactc  | 5760 |
| aagtctttta  | tttagagaac  | tggcaagctg  | tcaaaaacaa  | aaaggcctta | ccaccaaatt  | 5820 |
| aagtgaatag  | ccgctatagc  | cagcagggcc  | agcacgaggg  | atggtgcact | gctggcacta  | 5880 |
| tgccacggcc  | tgcttgtgac  | tctgagagca  | actgctttgg  | aaatgacagc | acttggtgca  | 5940 |
| atttcctttg  | tttcagaatg  | cgtagagcgt  | gtgcttggcg  | acagtttttc | tagttaggcc  | 6000 |
| acttcttttt  | tccttctctc  | ctcattctcc  | taagcatgtc  | tccatgctgg | taatcccagt  | 6060 |
| caagtgaacg  | ttcaaacaat  | gaatccatca  | ctgtaggatt  | ctcgtggtga | tcaaactctt  | 6120 |
| gtgtgaggtc  | tataaaatat  | ggaagcttat  | ttatttttcg  | ttcttccata | tcagtcttct  | 6180 |
| ctatgacaat  | tcacatccac  | cacagcaa    | taaagggtgaa | ggaggctggt | gggatgaaga  | 6240 |

## 025CIP SEQ List ver2.txt

|   |      |
|---|------|
| gggtcttcta gctttacgtt cttccttgca aggccacagg aaaatgctga gagctgtaga   | 6300 |
| atacagcctg gggtaagaag ttcagttctcc tgctgggaca gctaaccgca tcttataacc  | 6360 |
| ccttctgaga ctcatcttag gaccaaatag ggtctatctg gggtttttgt tcctgctggt   | 6420 |
| cctcctggaa ggctatctca ctatttcaact gctcccacgg ttacaaacca aagatacagc  | 6480 |
| ctgaattttt tctaggccac attacataaa tttgacctgg taccaatatt gttctctata   | 6540 |
| tagttatttc cttccccact gtgtttaacc ccttaaggca ttcagaacaa ctagaatcat   | 6600 |
| agaatggttt ggattggaag gggccttaaa catcatccat ttccaaccct ctgccatggg   | 6660 |
| ctgcttgcca cccactggct caggctgccc agggcccat ccagcctggc cttgagcacc    | 6720 |
| tccagggatg gggcacccac agcttctctg ggcagcctgt gccaacacct caccactctc   | 6780 |
| tgggtaaaga atttctttt aacatctaata ctaaattctt tctcttttag tttaaagcca   | 6840 |
| ttcctctttt tcccgttgct atctgtccaa gaaatgtgta ttggtctccc tcctgcttat   | 6900 |
| aagcaggaag tactggaagg ctgcagtgag gtctccccac agccttctct tctccaggct   | 6960 |
| gaacaagccc agctccttca gcctgtcttc gtaggagatc atcttagtgg cctcctctg    | 7020 |
| gacccattcc aacagttcca cggctttctt gtggagcccc aggtctggat gcagtacttc   | 7080 |
| agatggggcc ttacaaaggc agagcagatg gggacaatcg cttaccctc cctgctggct    | 7140 |
| gcccctgttt tgatgcagcc cagggtactg ttggcctttc aggtctccag accccttgct   | 7200 |
| gatttgtgtc aagcttttca tccaccagaa cccacgcttc ctggttaata cttctgccct   | 7260 |
| cacttctgta agcttgtttc aggagacttc cattcttttag gacagactgt gttacaccta  | 7320 |
| cctgccctat tcttgcatat atacatttca gttcatgttt cctgtaacag gacagaatat   | 7380 |
| gtattcctct aacaaaaata catgcagaat tcctagtgcc atctcagtag ggttttcatg   | 7440 |
| gcagtattag cacatagtca atttgctgca agtaccttcc aagctgcggc ctcccataaa   | 7500 |
| tcctgtattt gggatcagtt accttttggg gtaagctttt gtatctgcag agaccctggg   | 7560 |
| ggttctgatg tgcttcagct ctgctctgtt ctgactgcac cattttctag atcaccagct   | 7620 |
| tgttcctgta caacttcctt gtccctccatc ctttccagc ttgtatcttt gacaaatata   | 7680 |
| ggcctatttt tgtgtttgct tcagcagcca tttaatctt cagtgtcatc ttgttctggt    | 7740 |
| gatgccactg gaacaggatt ttcagcagtc ttgcaaagaa catctagctg aaaactttct   | 7800 |
| gccattcaat attcttacca gttcttcttg tttgaggatg gccataaatt actagaactt   | 7860 |
| cgtcactgac aagtttatgc attttattac ttctattatg tacttacttt gacataacac   | 7920 |
| agacacgcac atattttgct gggattttcca cagtgtctct gtgtccttca catgggtttta | 7980 |
| ctgtcatact tccgttataa ccttggcaat ctgcccagct gcccatcaca agaaaagaga   | 8040 |
| ttcctttttt attacttctc ttcagccaat aaacaaaatg tgagaagccc aaacaagaac   | 8100 |
| ttgtggggca ggctgccatc aaggagagaga cagctgaagg gttgtgtagc tcaatagaat  | 8160 |

## 025CIP SEQ List ver2.txt

|  |       |
|--|-------|
| taagaaataa taaagctgtg tcagacagtt ttgcctgatt tatacaggca cgccccaagc  | 8220  |
| cagagaggct gtctgccaag gccaccttgc agtccttggg ttgtaagata agtcataggt  | 8280  |
| aacttttctg gtgaattgcg tggagaatca tgatggcagt tcttgctgtt tactatggta  | 8340  |
| agatgctaaa ataggagaca gcaaagtaac acttgctgct gtaggtgctc tgctatccag  | 8400  |
| acagcgatgg cactcgaca ccaagatgag ggatgctccc agctgacgga tgctggggca   | 8460  |
| gtaacagtgg gtcccatgct gcctgctcat tagcatcacc tcagccctca ccagcccatc  | 8520  |
| agaaggatca tcccaagctg aggaaagttg ctcactttct tcacatcatc aaacctttgg  | 8580  |
| cctgactgat gcctcccgga tgcttaaagt tggctactga catctttatt tttctatgat  | 8640  |
| ttcaagtcag aacctccgga tcaggaggga acacatagtg ggaatgtacc ctcagctcca  | 8700  |
| aggccagatc ttccttcaat gatcatgcat gctacttagg aagggtgtgtg tgtgtgaatg | 8760  |
| tagaattgcc tttgttattt tttcttcctg ctgtcaggaa cattttgaat accagagaaa  | 8820  |
| aagaaaagtg ctcttcttgg catgggagga gttgtcacac ttgcaaaata aaggatgcag  | 8880  |
| tcccaaagt tcataatctc agggctctgaa ggaggatcag aaactgtgta tacaatttca  | 8940  |
| ggcttctctg aatgcagctt ttgaaagctg ttcctggccg aggcagtact agtcagaacc  | 9000  |
| ctcggaaca ggaacaaatg tcttcaaggt gcagcaggag gaaacacctt gcccatcatg   | 9060  |
| aaagtgaata accactgccg ctgaaggaat ccagctcctg tttgagcagg tgctgcacac  | 9120  |
| tcccacactg aaacaacagt tcatttttat aggacttcca ggaaggatct tcttcttaag  | 9180  |
| cttcttaatt atggtacatc tccagttggc agatgactat gactactgac aggagaatga  | 9240  |
| ggaactagct gggaatattt ctgtttgacc accatggagt caccatttc tttactggta   | 9300  |
| tttggaata ataattctga attgcaaagc aggagttagc gaagatcttc atttcttcca   | 9360  |
| tgttggtgac agcacagttc tggctatgaa agtctgctta caaggaagag gataaaaaatc | 9420  |
| atagggataa taaatctaag tttgaagaca atgaggtttt agctgcattt gacatgaaga  | 9480  |
| aattgagacc tctactggat agctatggta tttacgtgtc tttttgctta gttacttatt  | 9540  |
| gaccccagct gaggtcaagt atgaactcag gtctctcggg ctactggcat ggattgatta  | 9600  |
| catacaactg taatttttagc agtgatttag ggtttatgag tacttttgca gtaaatcata | 9660  |
| gggttagtaa tgtaatctc agggaaaaaa aaaaaagcc aacctgaca gacatcccag     | 9720  |
| ctcaggtgga aatcaaggat cacagctcag tgcggtccca gagaacacag ggactcttct  | 9780  |
| cttaggacct ttatgtacag ggcctcaaga taactgatgt tagtcagaag actttccatt  | 9840  |
| ctggccacag ttcagctgag gcaatcctgg aattttctct ccgctgcaca gttccagtca  | 9900  |
| tcccagtttg tacagttctg gcactttttg ggtcaggccg tgatccaagg agcagaagtt  | 9960  |
| ccagctatgg tcaggagtg cctgaccgtc ccaactcact gcactcaaac aaaggcgaaa   | 10020 |



## 025CIP SEQ List ver2.txt

|            |            |            |             |             |             |       |
|------------|------------|------------|-------------|-------------|-------------|-------|
| ccacaagagt | ggcttttgtt | gaaattgcag | tgtggcccag  | aggggctgca  | ccagtactgg  | 10080 |
| attgaccacg | aggcaacatt | aatcctcagc | aagtgcatt   | tgcagccatt  | aaattgaact  | 10140 |
| aactgatact | acaatgcaat | cagtatcaac | aagtggtttg  | gcttggaaga  | tggagtctag  | 10200 |
| gggctctaca | ggagtagcta | ctctctaata | gagttgcatt  | ttgaagcagg  | acactgtgaa  | 10260 |
| aagctggcct | cctaaagagg | ctgctaaaca | ttaggggtcaa | ttttccagt   | cacttttctga | 10320 |
| agtgtctgca | gttcccatg  | caaagctgcc | caaacatagc  | acttccaatt  | gaatacaatt  | 10380 |
| atatgcaggc | gtactgcttc | ttgccagcac | tgtccttctc  | aaatgaactc  | aacaaacaat  | 10440 |
| ttcaaagtct | agtagaaagt | aacaagcttt | gaatgtcatt  | aaaaagtata  | tctgctttca  | 10500 |
| gtagttcagc | ttatttatgc | ccactagaaa | catcttgtag  | aagctgaaca  | ctggggctcc  | 10560 |
| agattagtgg | taaaacctac | tttatacaat | catagaatca  | tagaatggcc  | tgggttgga   | 10620 |
| gggaccccaa | ggatcatgaa | gatccaacac | ccccgccaca  | ggcagggcca  | ccaacctcca  | 10680 |
| gatctggtac | tagaccaggc | agcccagggc | tccatccaac  | ctggccatga  | acacctccag  | 10740 |
| ggatggagca | tccacaacct | ctctgggcag | cctgtgccag  | cacctacca   | ccctctctgt  | 10800 |
| gaagaacttt | tccctgacat | ccaatctaag | ccttccctcc  | ttgagggttag | atccactccc  | 10860 |
| ccttgtgcta | tactgtcta  | ctcttgtaaa | aagttgattc  | tcctcctttt  | tggaagggtg  | 10920 |
| caatgaggtc | tccttgagc  | cttcttctct | tctgcaggat  | gaacaagccc  | agctccctca  | 10980 |
| gcctgtcttt | ataggagagg | tgctccagcc | ctctgatcat  | ctttgtggcc  | ctcctctgga  | 11040 |
| cccgtccaa  | gagctccaca | tctttcctgt | actggggggc  | ccaggcctga  | atgcagtact  | 11100 |
| ccagatgggg | cctcaaaaga | gcagagtaaa | gagggacaat  | caccttcctc  | accctgctgg  | 11160 |
| ccagccctct | tctgatggag | ccctggatac | aactggcttt  | ctgagctgca  | acttctcctt  | 11220 |
| atcagttcca | ctattaaaac | aggaacaata | caacaggtgc  | tgatggccag  | tgcagagttt  | 11280 |
| ttcacacttc | ttcatttcgg | tagatcttag | atgaggaacg  | ttgaagttgt  | gcttctgcgt  | 11340 |
| gtgcttcttc | ctcctcaaat | actcctgcct | gatacctcac  | cccacctgcc  | actgaatggc  | 11400 |
| tccatggccc | cctgcagcca | gggccctgat | gaacccggca  | ctgcttcaga  | tgctgtttaa  | 11460 |
| tagcacagta | tgaccaagtt | gcacctatga | atacacaac   | aatgtgttgc  | atccttcagc  | 11520 |
| acttgagaag | aagagccaaa | tttgcatgtg | caggaaatgg  | tttagtaatt  | ctgccaatta  | 11580 |
| aaacttgttt | atctaccatg | gctgttttta | tggctgttag  | tagtggtaca  | ctgatgatga  | 11640 |
| acaatggcta | tgcagtaaaa | tcaagactgt | agatattgca  | acagactata  | aaattcctct  | 11700 |
| gtggcttagc | caatgtggta | cttcccatc  | tgtataagaa  | atgtggcaag  | tttagagcaa  | 11760 |
| tgtttgaaat | gttgggaaat | ttctgtatac | tcaagagggc  | gtttttgaca  | actgtagaac  | 11820 |
| agaggaatca | aaagggggtg | ggaggaagtt | aaaagaagag  | gcaggtgcaa  | gagagcttgc  | 11880 |
| agtcccgtg  | tgtgtacgac | actggcaaca | tgagggtctt  | gctaattctg  | gtgctttgct  | 11940 |

## 025CIP SEQ List ver2.txt

|            |             |             |             |             |             |       |
|------------|-------------|-------------|-------------|-------------|-------------|-------|
| tcctgcccct | ggctgcctta  | gggtgcgatc  | tgccctcagac | ccacagcctg  | ggcagcagga  | 12000 |
| ggaccctgat | gctgctggct  | cagatgagga  | gaatcagcct  | gttttagctgc | ctgaaggata  | 12060 |
| ggcacgattt | tggcttttcct | caagaggagt  | ttggcaacca  | gtttcagaag  | gctgagacca  | 12120 |
| tccctgtgct | gcacgagatg  | atccagcaga  | tctttaacct  | gttttagcacc | aaggatagca  | 12180 |
| gcgctgcttg | ggatgagacc  | ctgctggata  | agtttttacac | cgagctgtac  | cagcagctga  | 12240 |
| acgatctgga | ggcttgcggt  | atccagggcg  | tgggctgtgac | cgagacccct  | ctgatgaagg  | 12300 |
| aggatagcat | cctggctgtg  | aggaagtact  | ttcagaggat  | caccctgtac  | ctgaaggaga  | 12360 |
| agaagtacag | cccctgcgct  | tgggaagtcg  | tgagggctga  | gatcatgagg  | agcttttagcc | 12420 |
| tgagcaccaa | cctgcaagag  | agcttgagggt | ctaaggagta  | aaaagtctag  | agtcggggcg  | 12480 |
| gccggccgct | tcgagcagac  | atgataagat  | acattgatga  | gtttggacaa  | accacaacta  | 12540 |
| gaatgcagtg | aaaaaaatgc  | tttattttgtg | aaattttgtga | tgctattgct  | ttattttgtaa | 12600 |
| ccattataag | ctgcaataaa  | caagttaaca  | acaacaattg  | cattcatttt  | atgttttcagg | 12660 |
| ttcaggggga | ggtgtgggag  | gtttttttaa  | gcaagtaaaa  | cctctacaaa  | tgtggtaaaa  | 12720 |
| tcgataagga | tccgtcgacc  | gatgcccttg  | agagccttca  | accagtcag   | ctccttccgg  | 12780 |
| tgggctcggg | gcatgactat  | cgctcgccgca | cttatgactg  | tcttctttat  | catgcaactc  | 12840 |
| gtaggacagg | tgccggcagc  | gctcttccgc  | ttcctcgctc  | actgactcgc  | tgcgctcggt  | 12900 |
| cgttcggtg  | cggcgagcgg  | tatcagctca  | ctcaaaggcg  | gtaatacggg  | tatccacaga  | 12960 |
| atcaggggat | aacgcaggaa  | agaacatgtg  | agcaaaaggc  | cagcaaaagg  | ccaggaaccg  | 13020 |
| taaaaaggcc | gcgttgctgg  | cgtttttcca  | taggctccgc  | ccccctgacg  | agcatcacia  | 13080 |
| aaatcgagc  | tcaagtcaga  | ggtggcgaaa  | cccagacagga | ctataaagat  | accaggcggt  | 13140 |
| tccccctgga | agctccctcg  | tgcgctctcc  | tggtccgacc  | ctgccgctta  | ccggatacct  | 13200 |
| gtccgccttt | ctcccttcgg  | gaagcgtggc  | gcttttctca  | tgctcacgct  | gtaggtatct  | 13260 |
| cagttcggtg | taggtcggtc  | gctccaagct  | gggctgtgtg  | cacgaacccc  | ccgttcagcc  | 13320 |
| cgaccgctgc | gccttatccg  | gtaactatcg  | tcttgagtcc  | aaccggtaa   | gacacgactt  | 13380 |
| atcgccactg | gcagcagcca  | ctggtaacag  | gattagcaga  | gcgaggatg   | taggcgggtgc | 13440 |
| tacagagttc | ttgaagtggg  | ggcctaacta  | cggctacact  | agaaggacag  | tatttggtat  | 13500 |
| ctgcgctctg | ctgaagccag  | ttaccttcgg  | aaaaagagtt  | ggtagctctt  | gatccggcaa  | 13560 |
| acaaaccacc | gctggtagcg  | gtgggttttt  | tgtttgcaag  | cagcagatta  | cgcgcagaaa  | 13620 |
| aaaaggatct | caagaagatc  | ctttgatctt  | ttctacgggg  | tctgacgctc  | agtggaacga  | 13680 |
| aaactcacgt | taagggatct  | tgggtcatgag | attatcaaaa  | aggatcttca  | cctagatcct  | 13740 |
| tttaaattaa | aaatgaagtt  | ttaaatcaat  | ctaaagtata  | tatgagtaaa  | cttgggtctga | 13800 |

## 025CIP SEQ List ver2.txt

|             |             |             |            |            |             |       |
|-------------|-------------|-------------|------------|------------|-------------|-------|
| cagttaccaa  | tgcttaatca  | gtgaggcacc  | tatctcagcg | atctgtctat | ttcgtttcatc | 13860 |
| catagttgcc  | tgactccccg  | tcgtgtagat  | aactacgata | cgaggagggt | taccatctgg  | 13920 |
| ccccagtgt   | gcaatgatac  | cgcgagaccc  | acgctcaccg | gctccagatt | tatcagcaat  | 13980 |
| aaaccagcca  | gccggaaggg  | ccgagcgcag  | aagtggtcct | gcaactttat | ccgcctccat  | 14040 |
| ccagtctatt  | aattgttgcc  | gggaagctag  | agtaagtagt | tcgccagtta | atagtttgcg  | 14100 |
| caacgttggt  | gccattgcta  | caggcatcgt  | ggtgtcacgc | tcgtcgtttg | gtatggcttc  | 14160 |
| attcagctcc  | ggttcccaac  | gatcaaggcg  | agttacatga | tccccatgt  | tgtgcaaaaa  | 14220 |
| agcggttagc  | tccttcggtc  | ctccgatcgt  | tgtcagaagt | aagttggccg | cagtgttatc  | 14280 |
| actcatgggt  | atggcagcac  | tgcataattc  | tcttactgtc | atgccatccg | taagatgctt  | 14340 |
| ttctgtgact  | ggtgagtact  | caaccaagtc  | attctgagaa | tagtgtatgc | ggcgaccgag  | 14400 |
| ttgctcttgc  | ccggcgtcaa  | tacgggataa  | taccgcgcca | catagcagaa | ctttaaaagt  | 14460 |
| gctcatcatt  | ggaaaacgtt  | cttcggggcg  | aaaactctca | aggatcttac | cgctgttgag  | 14520 |
| atccagttcg  | atgtaacca   | ctcgtgcacc  | caactgatct | tcagcatctt | ttactttcac  | 14580 |
| cagcgtttct  | gggtgagcaa  | aaacaggaag  | gcaaaatgcc | gcaaaaaagg | gaataagggc  | 14640 |
| gacacggaaa  | tgttgaaatac | tcatactctt  | cctttttcaa | tattattgaa | gcatttatca  | 14700 |
| gggttattgt  | ctcatgagcg  | gatacatatt  | tgaatgtatt | tagaaaaata | aacaaatagg  | 14760 |
| ggttccgcgc  | acatttcccc  | gaaaagtgcc  | acctgacgcg | ccctgtagcg | gcgcattaag  | 14820 |
| cgcggcgggt  | gtggtggtta  | cgcgacgcgt  | gaccgctaca | cttgccagcg | ccctagcgcc  | 14880 |
| cgctcctttc  | gctttcttcc  | cttcctttct  | cgccacgttc | gccggctttc | cccgtcaagc  | 14940 |
| tctaaatcgg  | gggctccctt  | taggggttccg | atttagtgct | ttacggcacc | tcgaccccaa  | 15000 |
| aaaacttgat  | taggggtgatg | gttcacgtag  | tgggccatcg | ccctgataga | cggtttttcg  | 15060 |
| ccctttgacg  | ttggagtcca  | cgttctttta  | tagtggactc | ttgttccaaa | ctggaacaac  | 15120 |
| actcaaccct  | atctcgggtct | attcttttga  | tttataaggg | attttgccga | tttcggccta  | 15180 |
| ttgggttaaaa | aatgagctga  | tttaacaaaa  | atttaacgcg | aattttaaca | aaatattaac  | 15240 |
| gtttacaatt  | tcccatcgc   | cattcaggct  | gcgcaactgt | tgggaagggc | gatcggtgcg  | 15300 |
| ggcctcttcg  | ctattacgcc  | agcccaagct  | accatgataa | gtaagtaata | ttaaggtagc  | 15360 |
| ggaggtactt  | ggagcggccg  | ctctagaact  | agtggatccc | ccggccgcaa | taaaatatct  | 15420 |
| ttattttcat  | tacatctgtg  | tgttggtttt  | ttgtgtgaat | cgatagtact | aacatacgct  | 15480 |
| ctccatcaaa  | acaaaacgaa  | acaaaacaaa  | ctagcaaaat | aggctgtccc | cagtgcaagt  | 15540 |
| gcaggtgcc   | gaacatttct  | ctatcgatag  | gtaccgagct | cttacgcgtg | ctagccctcg  | 15600 |
| agcaggatct  | atacattgaa  | tcaatattgg  | caattagcca | tattagtc   | tggttatata  | 15660 |
| gcataaatca  | atattggcta  | ttggccattg  | catacgttgt | atctatatca | taatatgtac  | 15720 |

025CIP SEQ List ver2.txt

|             |            |             |             |             |             |       |
|-------------|------------|-------------|-------------|-------------|-------------|-------|
| atttatattg  | gctcatgtcc | aatatgaccg  | ccatgttgac  | attgattatt  | gactagttat  | 15780 |
| taatagtaat  | caattacggg | gtcattagtt  | catagcccat  | atatggagtt  | ccgcgttaca  | 15840 |
| taacttacgg  | taaatggccc | gcctggctga  | ccgcccacg   | acccccgccc  | attgacgtca  | 15900 |
| ataatgacgt  | atgttcccat | agtaacgcca  | atagggactt  | tccattgacg  | tcaatgggtg  | 15960 |
| gagtatttac  | ggtaaactgc | ccacttgga   | gtacatcaag  | tgtatcatat  | gccaagtccg  | 16020 |
| ccccctattg  | acgtcaatga | cggtaaatgg  | cccgcctggc  | attatgcccc  | gtacatgacc  | 16080 |
| ttacgggact  | ttcctacttg | gcagtacatc  | tacgtattag  | tcatcgctat  | taccatgggtg | 16140 |
| atgcggtttt  | ggcagtacat | caatgggctg  | ggatagcggg  | ttgactcacg  | gggatttcca  | 16200 |
| agtctccacc  | ccattgacgt | caatgggagt  | ttgttttggc  | acaaaaatca  | acgggacttt  | 16260 |
| ccaaaatgtc  | gtaacaactc | cgccccattg  | acgcaaattg  | gcggtaggcg  | tgtacgggtg  | 16320 |
| gagggtctata | taagcagagc | tcgttttagtg | aaccgtcaga  | tcgcctggag  | acgccatcca  | 16380 |
| cgctgttttg  | acctccatag | aagacaccgg  | gaccgatcca  | gcctccccctc | gaagctcgac  | 16440 |
| tctaggggct  | cgagatctgc | gatctaagta  | agcttgcatg  | cctgcagggtc | ggccgccacg  | 16500 |
| accgggtgccg | ccaccatccc | ctgaccacg   | cccctgaccc  | ctcacaagga  | gacgaccttc  | 16560 |
| catgaccgag  | tacaagcccc | cggtgcgcct  | cgccacccgc  | gacgacgtcc  | cccgggcccgt | 16620 |
| acgcaccctc  | gccgccgcgt | tcgccgacta  | ccccgccacg  | cgccacaccg  | tcgaccggga  | 16680 |
| ccgccacatc  | gagcgggtca | ccgagctgca  | agaactcttc  | ctcacgcgcg  | tcgggctcga  | 16740 |
| catcggcaag  | gtgtgggtcg | cggacgacgg  | cgccgcgggtg | gcgggtctgga | ccacgccgga  | 16800 |
| gagcgtcgaa  | gcggggggcg | tgttcgccga  | gatcggccccg | cgcatggccg  | agttgagcgg  | 16860 |
| ttcccggtcg  | gccgcgcagc | aacagatgga  | aggcctcctg  | gcgccgcacc  | ggcccaagga  | 16920 |
| gcccgcgtgg  | ttcctggcca | ccgtcggcgt  | ctcgcccgac  | caccagggca  | aggggtctggg | 16980 |
| cagcgccgtc  | gtgctccccg | gagtggaggc  | ggccgagcgc  | gccgggggtgc | ccgccttcct  | 17040 |
| ggagacctcc  | gcgccccgca | acctccccctt | ctacgagcgg  | ctcggcttca  | ccgtcaccgc  | 17100 |
| cgacgtcgag  | gtgcccgaag | gaccgcgcac  | ctggtgcatg  | acccgcaagc  | ccggtgcctg  | 17160 |
| acgcccggcc  | cacgaccgcg | agcggccgac  | cgaaaggagc  | gcacgacccc  | atggctccga  | 17220 |
| ccgaagccga  | cccggggcgg | cccggcgacc  | ccgcacccgc  | ccccgaggcc  | caccgactct  | 17280 |
| agagtcgggg  | cggccggccg | cttcgagcag  | acatgataag  | atacattgat  | gagtttggac  | 17340 |
| aaaccacaac  | tagaatgcag | tgaaaaaat   | gctttatttg  | tgaaatttgt  | gatgctattg  | 17400 |
| ctttatttgt  | aaccattata | agctgcaata  | aacaagttaa  | caacaacaat  | tgcattcatt  | 17460 |
| ttatgtttca  | ggttcagggg | gaggtgtggg  | aggtttttta  | aagcaagtaa  | aacctctaca  | 17520 |
| aatgtggtaa  | aatcgataag | gatcaattcg  | gcttcaggta  | ccgtcgacga  | tgtaggtcac  | 17580 |

## 025CIP\_SEQ\_List\_ver2.txt

```

gggtctcgaag ccgcggtgcg ggtgccaggg cgtgcccttg ggctccccgg gcgcgtactc 17640
cacctcaccc atctggtcca tcatgatgaa cgggtcgagg tggcggtagt tgatccccggc 17700
gaacgcgcgg cgaccggga agccctcgcc ctcgaaaccg ctgggcgcgg tggtcacggt 17760
gagcacggga cgtgcgacgg cgtcggcggg tgcggatacg cggggcagcg tcagcggggt 17820
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cctcgctcac tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta tcagctcact 18060
caaaggcggg aatacgggta tccacagaat caggggataa cgcaggaaag aacatg 18116

```

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<210> 8
<211> 17402
<212> DNA
<213> artificial

```

```

<400> 8
ggccgccacc gcggtggagc tccaattcgc cctatagtga gtcgtattac aattcactgg 60
ccgtcgtttt acaacgtcgt gactgggaaa accctggcgt tacccaactt aatcgccctg 120
cagcacatcc ccctttcgcc agctggcgta atagcgaaga ggcccgacc gatcgccctt 180
cccaacagtt gcgcagcctg aatggcgaat gggacgcgcc ctgtagcggc gcattaagcg 240
cggcgggtgt ggtggttacg cgacgcgtga ccgctacact tgccagcgcc ctacgcgccg 300
ctcctttcgc tttcttccct tcctttctcg ccacgttcgc cggctttccc cgtcaagctc 360
taaactcgggg gctcccttta gggttccgat ttagtgcttt acggcacctc gaccccaaaa 420
aacttgatta ggggtgatgg tcaagtagtg ggccatcgcc ctgatagacg gtttttcgcc 480
ctttgacgtt ggagtccacg ttctttaata gtggactctt gttccaaact ggaacaacac 540
tcaaccctat ctcggtctat tcttttgatt tataagggat ttgcccgatt tcggcctatt 600
ggttaaaaaa tgagctgatt taacaaaaat ttaacgcgaa ttttaacaaa atattaacgc 660
ttacaattta ggtggcactt ttcggggaaa tgtgcgcgga acccctatgt gtttattttt 720
ctaaatacat tcaaatatgt atccgctcat gagacaataa ccctgataaa tgcttcaata 780
atattgaaaa aggaagagta tgagtattca acatttccgt gtcgccctta ttcccttttt 840
tgcggcattt tgccttcctg tttttgctca cccagaaacg ctggtgaaaag taaaagatgc 900
tgaagatcag ttgggtgcac gagtgggtta catcgaactg gatctcaaca gcggtgaagat 960
ccttgagagt tttcgccccg aagaacgttt tccaatgatg agcactttta aagttctgct 1020
atgtggcgcg gtattatccc gtattgacgc cgggcaagag caactcgggt gccgcataca 1080
ctattctcag aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg 1140

```

## 025CIP SEQ List ver2.txt

|   |      |
|---|------|
| catgacagta agagaattat gcagtgtctgc cataacccatg agtgataaca ctgcggccaa | 1200 |
| cttactttctg acaacgatcg gaggaccgaa ggagctaacc gctttttttgc acaacatggg | 1260 |
| ggatcatgta actcgccttg atcgtttggga accggagctg aatgaagcca taccaaacga  | 1320 |
| cgagcgtgac accacgatgc ctgtagcaat ggcaacaacg ttgcgcaaac tattaactgg   | 1380 |
| cgaactactt actctagctt cccggcaaca attaatagac tggatggagg cggataaagt   | 1440 |
| tgcaggacca cttctgcgct cggcccttcc ggctggctgg tttattgctg ataaatctgg   | 1500 |
| agccggtgag cgtgggtctc gcggtatcat tgcagcactg gggccagatg gtaagccctc   | 1560 |
| ccgtatcgta gttatctaca cgacggggag tcaggcaact atggatgaac gaaatagaca   | 1620 |
| gatcgctgag ataggtgcct cactgattaa gcattggtaa ctgtcagacc aagtttactc   | 1680 |
| atatatactt tagattgatt taaaacttca tttttaattt aaaaggatct aggtgaagat   | 1740 |
| cctttttgat aatctcatga ccaaaatccc ttaacgtgag ttttcgttcc actgagcgtc   | 1800 |
| agaccccgtg gaaaagatca aaggatcttc ttgagatcct ttttttctgc gcgtaatctg   | 1860 |
| ctgcttgcaa acaaaaaaac caccgctacc agcggtggtt tgtttgccgg atcaagagct   | 1920 |
| accaactctt tttccgaagg taactggctt cagcagagcg cagataccaa atactgtcct   | 1980 |
| tctagtgtag ccgtagttag gccaccactt caagaactct gtagcaccgc ctacatacct   | 2040 |
| cgctctgcta atcctgttac cagtggctgc tgccagtggc gataagtcgt gtcttaccgg   | 2100 |
| gttggactca agacgatagt taccggataa ggcgagcgg tcgggctgaa cgggggggttc   | 2160 |
| gtgcacacag cccagcttgg agcgaacgac ctacaccgaa ctgagatacc tacagcgtga   | 2220 |
| gctatgagaa agcgccacgc ttcccgaagg gagaaaggcg gacaggatc cggtaaagcg    | 2280 |
| cagggtcgga acaggagagc gcacgagggg gcttccaggg ggaaacgcct ggtatcttta   | 2340 |
| tagtcctgtc ggggttcgcc acctctgact tgagcgtcga tttttgtgat gctcgtcagg   | 2400 |
| ggggcggagc ctatggaaaa acgccagcaa cgcggccttt ttacggttcc tggccttttg   | 2460 |
| ctggcctttt gctcacatgt tctttcctgc gttatcccct gattctgtgg ataaccgtat   | 2520 |
| taccgccttt gagtgaagctg ataccgctcg ccgcagccga acgaccgagc gcagcagtc   | 2580 |
| agtgagcgag gaagcggaag agcgcccaat acgcaaaccg cctctccccg cgcgttggcc   | 2640 |
| gattcattaa tgcagctggc acgacagggt tcccgaactg aaagcgggca gtgagcgcaa   | 2700 |
| cgcaattaat gtgagttagc tcaactatta ggcaacccag gctttactt ttatgcttcc    | 2760 |
| ggctcgtatg ttgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagctatga   | 2820 |
| ccatgattac gccaaagctcg aaattaaccc tacttaaagg gaacaaaagc tgggtaccgg  | 2880 |
| gccccccctc gactagaggg acagcccccc ccaaagccc ccagggatgt aattacgtcc    | 2940 |
| ctccccgct agggggcagc agcgagccgc ccggggctcc gctccggtcc ggcgctcccc    | 3000 |
| ccgcatcccc gagccggcag cgtgcgggga cagcccgggc acgggggaagg tggcacggga  | 3060 |

025CIP SEQ List ver2.txt

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tcgctttcct  | ctgaacgctt  | ctcgtgctc   | tttgagcctg  | cagacacctg  | gggggatacg  | 3120 |
| gggaaaaagc  | tttaggctga  | aagagagatt  | tagaatgaca  | gaatcataga  | acggcctggg  | 3180 |
| ttgcaaagga  | gcacagtgtc  | catccagatc  | caacccccctg | ctatgtgcag  | ggtcatcaac  | 3240 |
| cagcagccca  | ggctgcccag  | agccacatcc  | agcctggcct  | tgaatgcctg  | cagggatggg  | 3300 |
| gcattccacag | cctccttggg  | caacctgttc  | agtgcgtcac  | cacctcttgg  | gggaaaaact  | 3360 |
| gcctcctcat  | atccaaccca  | aacctccccct | gtctcagtgt  | aaagccattc  | ccccttgtcc  | 3420 |
| tatcaagggg  | gagtttgctg  | tgacattgtt  | ggctctgggg  | gacacatgtt  | tgccaattca  | 3480 |
| gtgcatcacg  | gagaggcaga  | tcttggggat  | aagggaagtgc | aggacagcat  | ggacgtggga  | 3540 |
| catgcagggtg | ttgagggtct  | tgggacactc  | tccaagtcac  | agcgttcaga  | acagccttaa  | 3600 |
| ggataagaag  | ataggataga  | aggacaaaga  | gcaagttaaa  | acccagcatg  | gagaggagca  | 3660 |
| caaaaaggcc  | acagacactg  | ctgggtccctg | tgtctgagcc  | tgcatgtttg  | atggtgtctg  | 3720 |
| gatgcaagca  | gaaggggtgg  | aagagcttgc  | ctggagagat  | acagctgggt  | cagtaggact  | 3780 |
| gggacaggca  | gctggagaat  | tgccatgtag  | atgttcatac  | aatcgtcaaa  | tcatgaaggc  | 3840 |
| tggaaaagcc  | ctccaagatc  | cccaagacca  | acccaaccc   | acccaccgtg  | cccactggcc  | 3900 |
| atgtccctca  | gtgccacatc  | cccacagttc  | ttcatcacct  | ccagggacgg  | tgaccccccc  | 3960 |
| acctccgtgg  | gcagctgtgc  | cactgcagca  | ccgctctttg  | gagaaggtaa  | atcttgctaa  | 4020 |
| atccagcccc  | acctccccct  | ggcacaacgt  | aaggccatta  | tctctcatcc  | aactccagga  | 4080 |
| cggagtcagt  | gaggatgggg  | ctctagtcga  | ggtcgacggg  | atcgataagc  | ttgattaggc  | 4140 |
| agagcaatag  | gactctcaac  | ctcgtgagta  | tggcagcatg  | ttaactctgc  | actggagtcc  | 4200 |
| agcgtgggaa  | acaatctgcc  | ttgcacatga  | gtcttcgtgg  | gccaatattc  | cccaacgggt  | 4260 |
| ttccttcagc  | ttgtcttgtc  | tcctaagctc  | tcaaaacacc  | tttttgggtga | ataaaactcac | 4320 |
| ttggcaacgt  | ttatctgtct  | taccttagtg  | tcacgtttca  | tccctattcc  | cctttctcct  | 4380 |
| cctccgtgtg  | gtacacagtg  | gtgcacactg  | gttcttctgt  | tgatgttctg  | ctctgacagc  | 4440 |
| caatgtgggt  | aaagtcttct  | ctgccacgtg  | tctgtgttgt  | tttcacttca  | aaaagggccc  | 4500 |
| tgggctcccc  | ttggagctct  | caggcatttc  | cttaatcatc  | acagtcacgc  | tggcaggatt  | 4560 |
| agtcctcct   | aaaccttaga  | atgacctgaa  | cgtgtgctcc  | ctctttgtag  | tcagtgcagg  | 4620 |
| gagacgtttg  | cctcaagatc  | aggggtccatc | tcacccacag  | ggccattccc  | aagatgaggt  | 4680 |
| ggatgggtta  | ctctcacaaa  | aagttttctt  | atgtttggct  | agaaaggaga  | actcactgcc  | 4740 |
| tacctgtgaa  | ttccccctagt | cctggttctg  | ctgccactgc  | tgctgtgca   | gcctgtccca  | 4800 |
| tggagggggc  | agcaactgct  | gtcacaaaagg | tgatcccacc  | ctgtctccac  | tgaaatgacc  | 4860 |
| tcagtgccac  | gtgttgata   | gggtataaag  | tacgggaggg  | ggatgcccgg  | ctcccttcag  | 4920 |

## 025CIP\_SEQ\_List\_ver2.txt

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ggttgcagag | cagaagtgtc  | tgtgtataga  | gtgtgtctta  | atctattaat  | gtaacagaac  | 4980 |
| aacttcagtc | ctagtgtttt  | gtgggctgga  | attgcccattg | tggtagggac  | aggcctgcta  | 5040 |
| aatcactgca | atcgccctatg | ttctgaaggt  | atgtgggaaa  | gaaagggatt  | tgggggattg  | 5100 |
| cctgtgattg | gctttaattg  | aatggcaaatt | cacaggaaag  | cagttctgct  | caacagttgg  | 5160 |
| ttgtttcagc | caattcttgc  | agccaaagag  | ccgggtgccc  | agcgatataa  | tagttgtcac  | 5220 |
| ttgtgtctgt | atggatgaca  | gggaggtagg  | gtgacctgag  | gaccaccctc  | cagcttctgc  | 5280 |
| tagcgtaggt | acagtcacca  | cctccagctc  | cacacgagtc  | ccatcgtagt  | ttaccaaaga  | 5340 |
| aacacaatta | tttgaccag   | tttgaaagt   | cacccgctga  | attgtgaggc  | tagattaata  | 5400 |
| gagctgaaga | gcaaattgtc  | ccaacttgga  | gatactagtt  | ggtattagta  | tcagaggaaac | 5460 |
| agggccatag | cacctccatg  | ctattagatt  | ccggctggca  | tgtacttttc  | aagatgattt  | 5520 |
| gtaactaaca | atggcttatt  | gtgcttgtct  | taagtctgtg  | tcctaattgta | aatgttcctt  | 5580 |
| tggtttatat | aaccttcttg  | ccatttgctc  | ttcagggtgtt | cttgcagaac  | actggctgct  | 5640 |
| ttaatctagt | ttactgttg   | cttgattatt  | cttagggata  | agatctgaat  | aaactttttg  | 5700 |
| tggttttggc | agacttttagc | ttgggcttag  | ctccacatt   | agctttttgct | gccttttctg  | 5760 |
| tgaagctatc | aagatcctac  | tcaatgacat  | tagctgggtg  | cagggtgtacc | aaatcctgct  | 5820 |
| ctgtggaaca | cattgtctga  | tgataccgaa  | ggcaaactg   | aactcaaaga  | ggcacagagt  | 5880 |
| taagaagaag | tctgtgcaat  | tcagaggaaa  | agccaaagt   | gccattagac  | acactttcca  | 5940 |
| tgcagcattt | gccagtaggt  | ttcatataaa  | actacaaaat  | ggaataaacc  | actacaaatg  | 6000 |
| ggaaaagcct | gatactagaa  | tttaaataat  | cacccaggct  | caaggggtgt  | ttcatggagt  | 6060 |
| aatatcactc | tataaaagta  | gggcagccaa  | ttattcacag  | acaaagcttt  | tttttttctg  | 6120 |
| tgctgcagtg | ctgtttttcg  | gctgatccag  | ggttacttat  | tgtgggtctg  | agagctgaat  | 6180 |
| gattttctct | tgtgtcatgt  | tggtgaagga  | gatatggcca  | gggggagatg  | agcatgttca  | 6240 |
| agaggaaacg | ttgcattttg  | gtggcttggg  | agaaaggtag  | aacgatataca | ggtccatagt  | 6300 |
| gtcactaaga | gatctgaagg  | atggttttac  | agaacagttg  | acttggtggtg | gtgcaggcctt | 6360 |
| ggctgtaaat | ggatggaagg  | atggacagat  | gggtggacag  | agatttctgt  | gcaggagatc  | 6420 |
| atctcctgag | ctcgggtgctt | gacagactgc  | agatccatcc  | cataaccttc  | tccagcatga  | 6480 |
| gagcgcgggg | agcttttggt  | ctgttcagtc  | tgctgcttgt  | tgcttcctgg  | gtgcacagtg  | 6540 |
| gtgattttct | tactcacaca  | gggcaaaaac  | ctgagcagct  | tcaaagtga   | caggttgctc  | 6600 |
| tcataggcca | ttcagttgtc  | aagatgaggt  | ttttggtttc  | ttgttttgta  | aggtgggaag  | 6660 |
| aagcactgaa | ggatcagttg  | cgagggcagg  | ggtttagcac  | tgttcagaga  | agtcttattt  | 6720 |
| taactcctct | catgaacaaa  | aagagatgca  | ggtgcagatt  | ctggcaagca  | tgcagtgaag  | 6780 |
| gagaaagccc | tgaatttctg  | atatatgtgc  | aatgttgggc  | acctaacatt  | ccccgctgaa  | 6840 |



## 025CIP SEQ List ver2.txt

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| gcacagcagc | tccagctcca | tgcagtactc | acagctggtg  | cagccctcgg | ctccagggtc | 6900 |
| tgagcagtgc | tgggactcac | gaggttccat | gtctttcaca  | ctgataatgg | tccaatttct | 6960 |
| ggaatgggtg | cccatccttg | gaggtcccca | aggccaggct  | ggctgcgtct | ccgagcagcc | 7020 |
| cgatctggtg | gtgagtagcc | agcccatggc | aggagttaga  | gcctgatggg | ctttaaggtc | 7080 |
| ccttccaacc | taagccatcc | tacgattcta | ggaatcatga  | cttgtagtg  | tgtattgcag | 7140 |
| aggcaatatt | ttaaagttat | aaatgttttc | tccccttcct  | tgttigtcaa | agttatcttg | 7200 |
| atgccttat  | caatgctttt | ggagtctcca | gtcatttttc  | ttacamcaaa | aagaggagga | 7260 |
| agaatgaaga | gaatcattta | atttcttgat | tgaatagtag  | gattcagaaa | gctgtacgta | 7320 |
| atgccgtctc | tttgatcga  | gctgtaagg  | ttctcatcat  | ttatcagcgt | ggtacatatc | 7380 |
| agcacttttc | catctgatgt | ggaaaaaaaa | atccttatca  | tctacagtct | ctgtacctaa | 7440 |
| acatcgctca | gactctttac | caaaaaagct | ataggtttta  | aaactacatc | tgctgataat | 7500 |
| ttgccttggt | ttagctcttc | ttccatatgc | tgcgtttggtg | agaggtgcgt | ggatgggcct | 7560 |
| aaactctcag | ctgctgagct | tgatgggtgc | ttaagaatga  | agcactcact | gctgaaactg | 7620 |
| ttttcatttc | acaggaatgt | tttagtgga  | ttgtttttat  | aactacatat | tcctcagata | 7680 |
| aatgaaatcc | agaaataatt | atgcaaactc | actgcatccg  | ttgcacaggt | ctttatctgc | 7740 |
| tagcaaagga | aataatttgg | ggatggcaaa | aacattcctt  | cagacatcta | tatttaaagg | 7800 |
| aatataatcc | tggtagccac | ccacttcac  | cctcattatg  | ttcacactca | gagatactca | 7860 |
| ttctcttggt | gttatcattt | gatagcggtt | tctttgggtc  | tttgccacgc | tctgggctat | 7920 |
| ggctgcacgc | tctgactga  | tcagcaagta | gatgcgaggg  | aagcagcagt | gagaggggct | 7980 |
| gccctcagct | ggcaccacgc | cgctcagcct | aggaggggac  | cttgcccttc | caccagctga | 8040 |
| ggtgcagccc | tacaagctta | cacgtgctgc | gagcaggtga  | gcaaagggag | tcttcatggt | 8100 |
| gtgtttcttg | ctgcccggaa | gcaaaacttt | actttcattc  | attccccttg | aagaatgagg | 8160 |
| aatgtttgga | aacggactgc | tttacgttca | atttctctct  | tccctttaag | gctcagccag | 8220 |
| gggccattgc | tgaggacggc | atcggggccc | cctggaccaa  | atctgtggca | cagatgggtt | 8280 |
| cacttacatc | agtggatgtg | ggatctgcgc | ctgtaatgtg  | tccttctgaa | ggaaggaacg | 8340 |
| tgctttccaa | gtgccagccc | cacagccccc | agccctccc   | tgtgctgctc | caattcatct | 8400 |
| cctcttcctc | cttctccctt | tgctgtttgt | gctcgggtag  | aatcatgaa  | gatttagaag | 8460 |
| agaaaacaaa | ataactggag | tggaaaccca | ggtgatgcag  | ttcattcagc | tgtcataggt | 8520 |
| ttgtcggtgc | tataggtctg | tatcagagat | gctarcacca  | ctttgctgct | ggtgcttaac | 8580 |
| tcgggtgaac | tctccttcac | tcgcatcatt | tgcgggcctt  | atttacatcc | ccagcatcca | 8640 |
| tcaccctctg | ggaaaatggg | cgcactggat | ctctaattgga | agactttccc | tctttcagag | 8700 |

## 025CIP SEQ List ver2.txt

|             |             |            |            |             |            |       |
|-------------|-------------|------------|------------|-------------|------------|-------|
| cctgtgggat  | gtgcagtgac  | aagaaacgtg | gaggggctga | gcagcagcac  | tgcccccagg | 8760  |
| gagcaggagc  | ggatgccatc  | ggtggcagca | tcccaaata  | tgtagcgga   | tgctgagcag | 8820  |
| gcagcggacg  | aacggacaga  | agcgatgcgt | acaccttctg | ttgacatggt  | atttggcagc | 8880  |
| gatttaacac  | tcgcttccta  | gtcctgctat | tctccacagg | ctgcattcaa  | atgaacgaag | 8940  |
| ggaagggagg  | caaaaagatg  | caaaatccga | gacaagcagc | agaaatatatt | cttcgctacg | 9000  |
| gaagcgtgcg  | caaacaacct  | tctccaacag | caccagaaga | gcacagcgta  | acctttttca | 9060  |
| agaccagaaa  | aggaaattca  | caaagcctct | gtggatacca | gcgcgttcag  | ctctcctgat | 9120  |
| agcagatttc  | ttgtcagggt  | gcgaatgggg | tatggtgcca | ggagggtgag  | ggaccatatg | 9180  |
| atcatataca  | gcacagcagt  | cattgtgcat | gtattaatat | atattgagta  | gcagtgttac | 9240  |
| tttgccaaag  | caatagttca  | gagatgagtc | ctgctgcata | cctctatctt  | aaaactaact | 9300  |
| tataaatagt  | aaaaccttct  | cagttcagcc | acgtgctcct | ctctgtcagc  | accaatggtg | 9360  |
| cttcgcctgc  | acccagctgc  | aaggaatcag | cccgtgatct | cattaacact  | cagctctgca | 9420  |
| ggataaatta  | gattgttcca  | ctctcttttg | ttgttaatta | cgacggaaca  | attgttcagt | 9480  |
| gctgatgggtc | ctaattgtca  | gctacagaaa | acgtctccat | gcagttcctt  | ctgcgccagc | 9540  |
| aaactgtcca  | ggctatagca  | ccgtgatgca | tgctacctct | cactccatcc  | ttcttctctt | 9600  |
| tcccaccagg  | gagagctgtg  | tgttttcact | ctcagccact | ctgaacaata  | ccaaactgct | 9660  |
| acgcactgcc  | tccctcgga   | agagaatccc | cttggtgctt | ttttatttac  | aggatccttc | 9720  |
| ttaaaaagca  | gaccatcatt  | cactgcaaac | ccagagcttc | atgcctctcc  | ttccacaacc | 9780  |
| gaaaacagcc  | ggcttcattt  | gtctttttta | aatgctgttt | tccaggtgaa  | ttttggccag | 9840  |
| cgtgttgggt  | gagatccagg  | agcacgtgtc | agctttctgc | tctcattgct  | cctgttctgc | 9900  |
| attgcctctt  | tctgggggtt  | ccaagagggg | gggagacttt | gcgcggggat  | gagataatgc | 9960  |
| cccttttctt  | agggtggtg   | ctgggcagca | gagtggctct | gggtcactgt  | ggcaccaatg | 10020 |
| ggaggcacca  | gtgggggtgt  | gttttgtgca | ggggggaagc | attcacagaa  | tggggctgat | 10080 |
| cctgaagctt  | gcagtccaag  | gctttgtctg | tgtacccagt | gaaatccttc  | ctctgttaca | 10140 |
| taaagcccag  | ataggactca  | gaaatgtagt | cattccagcc | cccctcttcc  | tcagatctgg | 10200 |
| agcagcactt  | gtttgcagcc  | agtcctcccc | aaaatgcaca | gacctcgccg  | agtggagggg | 10260 |
| gatgtaaaca  | gcgaagggtta | attacctcct | tgtcaaaaac | actttgtggt  | ccatagatgt | 10320 |
| ttctgtcaat  | cttacaaaac  | agaaccgaga | ggcagcgagc | actgaagagc  | gtgttcccat | 10380 |
| gctgagttaa  | tgagacttgg  | cagctcgctg | tgtagagatg | atccctgtgc  | ttcatgggag | 10440 |
| gctgtaacct  | gtctccccat  | cgccttcaca | ccgcagtgtc | gtcctggaca  | cctcaccctc | 10500 |
| cataagctgt  | aggatgcagc  | tgcccagggg | tcaagagact | tttcctaagg  | ctcttaggac | 10560 |
| tcactcttgc  | cgctcagtag  | cgtgcagcaa | ttactcatcc | caactatact  | gaatgggttt | 10620 |

## 025CIP SEQ List ver2.txt

|             |            |             |             |            |            |       |
|-------------|------------|-------------|-------------|------------|------------|-------|
| ctgccagctc  | tgcttgtttg | tcaataagca  | tttcttcatt  | ttgcctctaa | gtttctctca | 10680 |
| gcagcaccgc  | tctgggtgac | ctgagtggcc  | acctggaacc  | cgaggggcac | agccaccacc | 10740 |
| tccctgttgc  | tgctgctcca | gggactcatg  | tgctgctgga  | tggggggaag | catgaagttc | 10800 |
| ctcaccacaga | cacctgggtt | gcaatggctg  | cagcgtgctc  | ttcttggtat | gcagattggt | 10860 |
| tccagccatt  | acttgtagaa | atgtgctgtg  | gaagcccttt  | gtatctcttt | ctgtggccct | 10920 |
| tcagcaaaaag | ctgtgggaaa | gctctgaggc  | tgctttcttg  | ggtcgtggag | gaattgtatg | 10980 |
| ttccttcttt  | aacaaaaatt | atccttagga  | gagagcactg  | tgcaagcatt | gtgcacataa | 11040 |
| aacaattcag  | gttgaaaggg | ctctctggag  | gtttccagcc  | tgactactgc | tcgaagcaag | 11100 |
| gccaggttca  | aagatggctc | aggatgctgt  | gtgccttcct  | gattatctgt | gccaccaatg | 11160 |
| gaggagattc  | acagccactc | tgcttcccgt  | gccactcatg  | gagaggaata | ttcccttata | 11220 |
| ttcagataga  | atgttatcct | ttagctcagc  | cttccctata  | accccatgag | ggagctgcag | 11280 |
| atccccatac  | tctccccctt | tctgggggtga | aggccgtgtc  | ccccagcccc | ccttcccacc | 11340 |
| ctgtgcccta  | agcagcccgc | tggcctctgc  | tggatgtgtg  | cctatatgtc | aatgcctgtc | 11400 |
| cttgagctcc  | agcctgggac | atttaattca  | tcaccagggt  | aatgtggaac | tgtgtcatct | 11460 |
| tcccctgcag  | ggtacaaagt | tctgcacggg  | gtcctttcgg  | ttcaggaaaa | ccttcactgg | 11520 |
| tgctacctga  | atcaagctct | atttaataag  | ttcataagca  | catggatgtg | ttttcctaga | 11580 |
| gatacgtttt  | aatggtatca | gtgattttta  | tttgctttgt  | tgcttacttc | aaacagtgcc | 11640 |
| tttgggcagg  | aggtgagggg | cgggtctgcc  | gttggtctctg | cagtgatttc | tccaggcgtg | 11700 |
| tggctcagg   | cagatagtgg | tactctgtg   | gccagaagaa  | ggacaaagat | ggaaattgca | 11760 |
| gattgagtca  | cgttaagcag | gcatcttgga  | gtgatttgag  | gcagtttcat | gaaagagcta | 11820 |
| cgaccactta  | ttgttgtttt | ccccctttac  | aacagaagtt  | ttcatcaaaa | taacgtggca | 11880 |
| aagcccagga  | atgtttggga | aaagtgtagt  | taaatgtttt  | gtaattcatt | tgtcggagtg | 11940 |
| ctaccagcta  | agaaaaaagt | cctacctttg  | gtatggtagt  | cctgcagaga | atacaacatc | 12000 |
| aatattagtt  | tggaaaaaaa | caccaccacc  | accagaaact  | gtaatggaaa | atgtaaacca | 12060 |
| agaaattcct  | tgggtaagag | agaaaggatg  | tcgtatactg  | gccaagtcct | gcccagctgt | 12120 |
| cagcctgctg  | accctctgca | gttcaggacc  | atgaaacgtg  | gactgtgaag | acgtgtcccc | 12180 |
| tgcctttgct  | tgcccacaga | tctctgccct  | tgtgctgact  | cctgcacaca | agagcatttc | 12240 |
| cctgtagcca  | aacagcgatt | agccataagc  | tgcacctgac  | tttgaggatt | aagagtttgc | 12300 |
| aattaagtgg  | attgcagcag | gagatcagtg  | gcagggttgc  | agatgaaatc | cttttctagg | 12360 |
| ggtagctaag  | ggctgagcaa | cctgtcctac  | agcacaagcc  | aaaccagcca | agggttttcc | 12420 |
| tgtgctgttc  | acagaggcag | ggccagctgg  | agctggagga  | ggttgtgctg | ggacccttct | 12480 |

## 025CIP SEQ List ver2.txt

|            |            |            |            |             |            |       |
|------------|------------|------------|------------|-------------|------------|-------|
| ccctgtgctg | agaatggagt | gatttctggg | tgctgttcct | gtggcttgca  | ctgagcagct | 12540 |
| caagggagat | cgggtgtcct | catgcagtg  | caaaactcgt | gtttgatgca  | gaaagatgga | 12600 |
| tgtgcacctc | cctcctgcta | atgcagccgt | gagcttatga | aggcaatgag  | ccctcagtg  | 12660 |
| agcaggagct | gtagtgact  | cctgtaggtg | ctagggaaaa | tctctggttc  | ccagggatgc | 12720 |
| attcataagg | gcaatatatc | ttgaggctgc | gccaaatctt | tctgaaatat  | tcatgctgt  | 12780 |
| tccttaatt  | tatagaaaca | aacacagcag | aataattatt | ccaatgcctc  | ccctcgaagg | 12840 |
| aaacccatat | ttccatgtag | aaatgtaacc | tatatacaca | cagccatgct  | gcacccctca | 12900 |
| gaacgtgcca | gtgctcatct | cccatggcaa | aatactacag | gtattctcac  | tatgttgga  | 12960 |
| ctgtgaaagg | aaccatggta | agaaacttcg | gttaaaggta | tggctgcaaa  | actactcata | 13020 |
| ccaaaacagc | agagctccag | acctcctctt | aggaaagagc | cacttgagga  | gggatgggtg | 13080 |
| gaaggctgga | ggtgagagac | agagcctgtc | ccagttttcc | tgtctctatt  | ttctgaaacg | 13140 |
| tttgaggag  | gaaaggacaa | ctgtactttc | aggcatagct | ggtgccctca  | cgtaaataag | 13200 |
| ttccccgaac | ttctgtgtca | tttgttctta | agatgctttg | gcagaacact  | ttgagtcaat | 13260 |
| tcgcttaact | gtgactaggt | ctgtaaataa | gtgctccctg | ctgataaggt  | tcaagtgaca | 13320 |
| tttttagtgg | tatttgacag | catttacctt | gctttcaagt | cttctaccaa  | gctcttctat | 13380 |
| acttaagcag | tgaaaccgcc | aagaaaccct | tccttttatc | aagctagtgc  | taaataccat | 13440 |
| taacttcata | ggttagatac | ggtgctgcca | gcttcacctg | gcagtgggtg  | gtcagttctg | 13500 |
| ctggtgacaa | agcctccctg | gcctgtgctt | ttacctagag | gtgaatatcc  | aagaatgcag | 13560 |
| aactgcatgg | aaagcagagc | tgcaggcacg | atggtgctga | gccttagctg  | cttcctgctg | 13620 |
| ggagatgtgg | atgcagagac | gaatgaagga | cctgtccctt | actccccctca | gcattctgtg | 13680 |
| ctatttaggg | ttctaccaga | gtccttaaga | ggtttttttt | ttttttgggtc | caaaagtctg | 13740 |
| tttgtttgg  | tttgaccact | gagagcatgt | gacacttgct | tcaagctatt  | aaccaagtgt | 13800 |
| ccagccaaaa | tcaattgcct | gggagacgca | gaccattacc | tggaggctcag | gacctcaata | 13860 |
| aatattacca | gcctcattgt | gccgctgaca | gattcagctg | gctgctccgt  | gttcaggtcc | 13920 |
| aacagttcgg | acgccacgtt | tgtatatatt | tgcaggcagc | ctcgggggga  | ccatctcagg | 13980 |
| agcagagcac | cggcagccgc | ctgcagagcc | gggcagtacc | tcaccatggc  | tttgaccttt | 14040 |
| gccttactgg | tggctctcct | ggtgctgagc | tgcaagagca | gctgctctgt  | gggctgcat  | 14100 |
| ctgcctcaga | cccacagcct | gggcagcagg | aggaccctga | tgctgctggc  | tcagatgagg | 14160 |
| agaatcagcc | tgtttagctg | cctgaaggat | aggcacgatt | ttggctttcc  | tcaagaggag | 14220 |
| tttggaacc  | agtttcagaa | ggctgagacc | atccctgtgc | tgcacgagat  | gatccagcag | 14280 |
| atctttaacc | tgtttagcac | caaggatagc | agcgctgctt | gggatgagac  | cctgctggat | 14340 |
| aagttttaca | ccgagctgta | ccagcagctg | aacgatctgg | aggcttgctg  | gatccagggc | 14400 |

025CIP SEQ List ver2.txt

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| tttcagagga | tcaccctgta  | cctgaaggag  | aagaagtaca | gcccctgcgc | ttgggaagtc  | 14520 |
| gtgagggctg | agatcatgag  | gagcttttagc | ctgagcacca | acctgcaaga | gagcttgagg  | 14580 |
| tctaaggagt | aaaaagtcta  | gagtcggggc  | ggccggccgc | ttcgagcaga | catgataaga  | 14640 |
| tacattgatg | agtttgaca   | aaccacaact  | agaatgcagt | gaaaaaatg  | ctttatttgt  | 14700 |
| gaaatttgtg | atgctattgc  | tttatttgtg  | accattataa | gctgcaataa | acaagttaac  | 14760 |
| aacaacaatt | gcattcattt  | tatgtttcag  | gttcaggggg | aggtgtggga | ggttttttaa  | 14820 |
| agcaagtaaa | acctctacaa  | atgtggtaaa  | atcgataccg | tcgacctcga | ctagagcggc  | 14880 |
| cactaacata | cgctctccat  | caaaacaaaa  | cgaaacaaaa | caaactagca | aaataggctg  | 14940 |
| tccccagtg  | aagtgcaggt  | gccagaacat  | ttctctatcg | ataggtaccg | agctcttacg  | 15000 |
| cgtgctagcc | ctcgagcagg  | atctatacat  | tgaatcaata | ttggcaatta | gccatattag  | 15060 |
| tcattggtta | tatagcataa  | atcaatattg  | gctattggcc | attgcatacg | ttgtatctat  | 15120 |
| atcataatat | gtacatttat  | attggctcat  | gtccaatatg | accgccatgt | tgacattgat  | 15180 |
| tattgactag | ttattaatag  | taatcaatta  | cggggtcatt | agttcatagc | ccatatatgg  | 15240 |
| agttccgct  | tacataactt  | acggtaaagt  | gcccgcctgg | ctgaccgccc | aacgaccccc  | 15300 |
| gcccattgac | gtcaataatg  | acgtatgttc  | ccatagtaac | gccaataggg | actttccatt  | 15360 |
| gacgtcaatg | gggtggagtat | ttacggtaaa  | ctgcccactt | ggcagtagat | caagtgtatc  | 15420 |
| atatgccaa  | tccgccccct  | attgacgtca  | atgacggtaa | atggcccgcc | tggcattatg  | 15480 |
| cccagtagat | gaccttacgg  | gactttccta  | cttggcagta | catctacgta | ttagtcatcg  | 15540 |
| ctattaccat | gggtgatgcg  | ttttggcagt  | acatcaatgg | gcgtggatag | cggtttgact  | 15600 |
| cacggggatt | tccaagtctc  | caccccatgt  | acgtcaatgg | gagtttggtt | tggcaccaaa  | 15660 |
| atcaacggga | ctttccaaaa  | tgctgtaaca  | actccgcccc | attgacgcaa | atgggcggta  | 15720 |
| ggcgtgtacg | gtgggaggtc  | tatataagca  | gagctcggtt | agtgaaccgt | cagatcgctt  | 15780 |
| ggagacgcca | tccacgctgt  | tttgacctcc  | atagaagaca | ccgggaccga | tccagcctcc  | 15840 |
| cctcgaagct | cgactctagg  | ggctcgagat  | ctgcgatcta | agtaagcttg | catgcctgca  | 15900 |
| ggcggccgc  | cacgaccggt  | gccgccacca  | tcccctgacc | cacgcccctg | acccctcaca  | 15960 |
| aggagacgac | cttccatgac  | cgagtacaag  | cccacgggtg | gcctcgccac | ccgcgacgac  | 16020 |
| gtccccggg  | ccgtacgcac  | cctcgccgcc  | gcgttcgccg | actacccgc  | cacgcgccac  | 16080 |
| accgtcgacc | cggaccgcca  | catcgagcgg  | gtcaccgagc | tgcaagaact | cttcctcacg  | 16140 |
| cgcgtcgggc | tcgacatcgg  | caaggtgtgg  | gtcgcggacg | acggcgccgc | gggtggcggtc | 16200 |
| tggaccacgc | cggagagcgt  | cgaagcgggg  | gcggtgttcg | ccgagatcgg | cccgcgcatg  | 16260 |

## 025CIP SEQ List ver2.txt

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 cactcaaagg cggtaatagc gttatccaca gaatcagggg ataacgcagg aaagaacatg 180  
 tgagcaaaaag gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc 240  
 cataggctcc gccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga 300  
 aacccgacag gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct 360  
 cctgttccga ccctgccgct taccggatac ctgtccgcct ttctcccttc ggggaagcgtg 420  
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## 025CIP\_SEQ\_List\_ver2.txt

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| ctgggctgtg  | tgcacgaacc | ccccgttcag | cccgaaccgct | gcgccttatc  | cggtaactat  | 540  |
| cgtcttgagt  | ccaacccggt | aagacacgac | ttatcgccac  | tggcagcagc  | cactggtaac  | 600  |
| aggattagca  | gagcgaggta | tgtaggcggt | gctacagagt  | tcttgaagtg  | gtggcctaac  | 660  |
| tacggctaca  | ctagaaggac | agtatttggg | atctgcgctc  | tgctgaagcc  | agttaccttc  | 720  |
| ggaaaaagag  | ttggtagctc | ttgatccggc | aaacaaacca  | ccgctggtag  | cgggtggtttt | 780  |
| tttgtttgca  | agcagcagat | tacgcgcaga | aaaaaggat   | ctcaagaaga  | tcctttgatc  | 840  |
| ttttctacgg  | ggtctgacgc | tcagtggaac | gaaaactcac  | gttaagggat  | tttggtcattg | 900  |
| agattatcaa  | aaaggatctt | cacctagatc | cttttaaaatt | aaaaatgaag  | ttttaaatca  | 960  |
| atctaaagta  | tatatgagta | aacttgggtc | gacagttacc  | aatgcttaat  | cagtgaggca  | 1020 |
| cctatctcag  | cgatctgtct | atttcgttca | tccatagttg  | cctgactccc  | cgtcgtgtag  | 1080 |
| ataactacga  | tacgggaggg | cttaccatct | ggccccagtg  | ctgcaatgat  | accgcgagac  | 1140 |
| ccacgctcac  | cggctccaga | tttatcagca | ataaaccagc  | cagccggaag  | ggccgagcgc  | 1200 |
| agaagtggtc  | ctgcaacttt | atccgcctcc | atccagtcta  | ttaattgttg  | ccgggaagct  | 1260 |
| agagtaagta  | gttcgccagt | taatagtttg | cgcaacgttg  | ttgccattgc  | tacaggcatc  | 1320 |
| gtggtgtcac  | gctcgtcggt | tggtatggct | tcattcagct  | ccggttccca  | acgatcaagg  | 1380 |
| cgagttacat  | gatcccccat | gttgtgcaaa | aaagcgggta  | gctccttcgg  | tcctccgatc  | 1440 |
| gttgtcagaa  | gtaagtggc  | cgcagtggtt | tcactcatgg  | ttatggcagc  | actgcataat  | 1500 |
| tctcttactg  | tcatgccatc | cgtaagatgc | ttttctgtga  | ctggtgagta  | ctcaaccaag  | 1560 |
| tcattctgag  | aatagtgtat | gcggcgaccg | agttgctctt  | gcccggcgctc | aatacgggat  | 1620 |
| aataccgcgc  | cacatagcag | aactttaaaa | gtgctcatca  | ttggaaaacg  | ttcttcgggg  | 1680 |
| cgaaaactct  | caaggatctt | accgctgttg | agatccagtt  | cgatgtaacc  | cactcgtgca  | 1740 |
| cccaactgat  | cttcagcatc | ttttactttc | accagcgttt  | ctgggtgagc  | aaaaacagga  | 1800 |
| aggcaaaatg  | ccgcaaaaaa | gggaataagg | gcgacacgga  | aatgttgaat  | actcatactc  | 1860 |
| ttcctttttc  | aatattattg | aagcatttat | cagggttatt  | gtctcatgag  | cggatacata  | 1920 |
| tttgaatgta  | tttagaaaaa | taaacaaata | ggggttccgc  | gcacatttcc  | ccgaaaagtg  | 1980 |
| ccacctgacg  | tcgacggatc | gggagatctc | ccgatcccc   | atggctcgact | ctcagtacaa  | 2040 |
| tctgctctga  | tgccgcatag | ttaagccagt | atctgctccc  | tgcttgtgtg  | ttggagggtcg | 2100 |
| ctgagtagtg  | cgcgagcaaa | atttaagcta | caacaaggca  | aggcttgacc  | gacaattgca  | 2160 |
| tgaagaatct  | gcttaggggt | aggcgttttg | cgctgcttcg  | cgatgtacgg  | gccagatata  | 2220 |
| cgcggtgctag | gggtctagga | tcgattctag | gaattctcta  | gccgcgggtct | agggatccccg | 2280 |
| gcgcgtatgg  | tgcactctca | gtacaatctg | ctctgatgcc  | gcatagttaa  | gccagtatct  | 2340 |
| gctccctgct  | tgtgtgttgg | aggtcgctga | gtagtgcgcg  | agcaaaattt  | aagctacaac  | 2400 |

## 025CIP SEQ List ver2.txt

|            |            |            |             |             |             |      |
|------------|------------|------------|-------------|-------------|-------------|------|
| aaggcaaggc | ttgaccgaca | attgcatgaa | gaatctgctt  | agggttaggc  | gttttgcgct  | 2460 |
| gcttcgcgat | gtacgggcca | gatatacgcg | tatctgaggg  | gactaggggtg | tgtttaggcg  | 2520 |
| aaaagcgggg | cttcggttgt | acgcggttag | gagtccccctc | aggatatagt  | agtttcgctt  | 2580 |
| ttgcataggg | agggggaaat | gtagtcttat | gcaatacact  | tgtagtcttg  | caacatggta  | 2640 |
| acgatgagtt | agcaacatgc | cttacaagga | gagaaaaagc  | accgtgcatg  | ccgattgggtg | 2700 |
| gaagtaagg  | ggtacgatcg | tgccttatta | ggaaggcaac  | agacaggtct  | gacatggatt  | 2760 |
| ggacgaacca | ctgaattccg | cattgcagag | ataattgtat  | ttaagtgcct  | agctcgatac  | 2820 |
| aataaacgcc | atttgaccat | tcaccacatt | ggtgtgcacc  | tccaagcttg  | catgcctgca  | 2880 |
| ggtaccggtc | cggaattccc | gggtcgacga | gctcactagt  | cgtagggtcg  | ccgacatgac  | 2940 |
| acaaggggtt | gtgaccgggg | tggacacgta | cgcggtgct   | tacgaccgtc  | agtcgcgcga  | 3000 |
| gcgcgagaat | tcgagcgag  | caagcccagc | gacacagcgt  | agcgccaacg  | aagacaaggc  | 3060 |
| ggccgacctt | cagcggaag  | tcgagcgga  | cgggggccgg  | ttcaggttcg  | tcgggcattt  | 3120 |
| cagcgaagcg | ccgggcacgt | cggcgttcgg | gacggcgag   | cgcccggagt  | tcgaacgcat  | 3180 |
| cctgaacgaa | tgccgcgcg  | ggcggtcaa  | catgatcatt  | gtctatgacg  | tgtcgcgctt  | 3240 |
| ctcgcgcctg | aaggatcatg | acgcgattcc | gattgtctcg  | gaattgctcg  | ccctgggcgt  | 3300 |
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| cctgattatg | cggctcgacg | cgctgcacaa | agaatcttcg  | ctgaagtcgg  | cgaagattct  | 3420 |
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| catcaacaag | cttcgcgact | cgaccactcc | ccttaccgga  | cccttcgagt  | tcgagcccga  | 3600 |
| cgtaatccgg | tgggtggtgg | gtgagatcaa | gacgcacaaa  | caccttcctt  | tcaagccggg  | 3660 |
| cagtcaagcc | gccattcacc | cgggcagcat | cacggggctt  | tgtaagcgca  | tggacgctga  | 3720 |
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| gcaagccatt | ctgtccgcca | tggacaagct | gtactgcgag  | tgtggcgccg  | tcatgacttc  | 4080 |
| gaagcgcggg | gaagaatcga | tcaaggactc | ttaccgctgc  | cgtcgccgga  | aggtggtcga  | 4140 |
| cccgtccgca | cctgggcagc | acgaaggcac | gtgcaacgtc  | agcatggcgg  | cactcgacaa  | 4200 |
| gttcgttgcg | gaacgcatct | tcaacaagat | caggcacgcc  | gaaggcgacg  | aagagacggt  | 4260 |



## 025CIP SEQ List ver2.txt

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## 025CIP\_SEQ\_List\_ver2.txt

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| acggtaaatg  | gccccgctgg  | ctgaccgccc  | aacgaccccc | gcccattgac  | gtcaataatg  | 840  |
| acgtatgttc  | ccatagtaac  | gccaataggg  | actttccatt | gacgtcaatg  | ggtggagtat  | 900  |
| ttacggtaaa  | ctgcccactt  | ggcagtacat  | caagtgtatc | atatgccaag  | tccgccccct  | 960  |
| attgacgtca  | atgacggtaa  | atggccccgc  | tggcattatg | cccagtacat  | gaccttacgg  | 1020 |
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| cacccccattg | acgtcaatgg  | gagtttgttt  | tggcaccaaa | atcaacggga  | ctttccaaaa  | 1200 |
| tgtcgtaaac  | actccgcccc  | attgacgcaa  | atgggcggta | ggcgtgtacg  | gtgggagggtc | 1260 |
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| tttgacctcc  | atagaagaca  | ccgggaccga  | tccagcctcc | cctcgaagct  | cgactctagg  | 1380 |
| ggctcgagat  | ctgcatctta  | agtaagcttg  | catgcctgca | ggtcggccgc  | cacgaccggt  | 1440 |
| gccgccacca  | tcccctgacc  | cacgccccctg | acccttcaca | aggagacgac  | cttccatgac  | 1500 |
| cgagtacaag  | cccacgggtgc | gcctcgccac  | ccgcgacgac | gtcccccg    | ccgtacgcac  | 1560 |
| cctcgccgcc  | gcgttcgccc  | actaccccg   | cacgcgccac | accgtcgacc  | cggaccgcca  | 1620 |
| catcgagcgg  | gtcaccgagc  | tgcaagaact  | cttcctcacg | cgcgtcgggc  | tcgacatcgg  | 1680 |
| caaggtgtgg  | gtcgcggacg  | acggcgccgc  | ggtggcggtc | tggaccacgc  | cggagagcgt  | 1740 |
| cgaagcgggg  | gcggtgttcg  | ccgagatcgg  | cccgcgcatg | gccgagttga  | gcggttccccg | 1800 |
| gctggccgcg  | cagcaacaga  | tggaaggcct  | cctggcgccg | caccggccca  | aggagcccg   | 1860 |
| gtggttcctg  | gccaccgtcg  | gcgtctcgcc  | cgaccaccag | ggcaagggtc  | tgggcagcgc  | 1920 |
| cgctcgtctc  | cccggagtg   | aggcgccga   | gcgcgcccgg | gtgcccgcct  | tcctggagac  | 1980 |
| ctccgcgccc  | cgcaacctcc  | ccttctacga  | gcggctcggc | ttcaccgtca  | ccgccgacgt  | 2040 |
| cgaggtgccc  | gaaggaccgc  | gcacctggtg  | catgaccgc  | aagcccggtg  | cctgacgccc  | 2100 |
| gccccacgac  | ccgcagcgcc  | cgaccgaaag  | gagcgcacga | ccccatggct  | ccgaccgaag  | 2160 |
| ccgaccggg   | cggccccg    | gacccgcac   | ccgccccga  | ggccccaccga | ctctagagtc  | 2220 |
| ggggcgggcg  | gccgcttcga  | gcagacatga  | taagatacat | tgatgagttt  | ggacaaacca  | 2280 |
| caactagaat  | gcagtgaaaa  | aaatgcttta  | tttgtgaaat | ttgtgatgct  | attgctttat  | 2340 |
| ttgtaaccat  | tataagctgc  | aataaacaag  | ttaacaacaa | caattgcatt  | cattttatgt  | 2400 |
| ttcaggttca  | gggggagggtg | tgggaggttt  | tttaaagcaa | gtaaaacctc  | tacaaatgtg  | 2460 |
| gtaaaatcga  | taaggatcaa  | ttcggcttca  | ggtaccgtcg | acgatgtagg  | tcacggtctc  | 2520 |
| gaagccgcgg  | tgcggtgccc  | agggcggtgc  | cttgggctcc | ccgggcgcgt  | actccacctc  | 2580 |
| acccatctgg  | tccatcatga  | tgaacgggtc  | gaggtggcgg | tagttgatcc  | cggcgaacgc  | 2640 |

## 025CIP SEQ List ver2.txt

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| gcggcgccacc | gggaagccct  | cgccctcgaa | accgctgggc  | gcggtggtca | cggtgagcac | 2700 |
| gggacgtgcg  | acggcgtcgg  | cgggtgcgga | tacgcggggc  | agcgtcagcg | ggttctcgac | 2760 |
| ggtcacggcg  | ggcatgtcga  | cagccgaatt | gatccgtcga  | ccgatgccct | tgagagcctt | 2820 |
| caaccagtc   | agctccttcc  | ggtgggcgcg | gggcatgact  | atcgtcgccg | cacttatgac | 2880 |
| tgtcttcttt  | atcatgcaac  | tcgtaggaca | ggtgccggca  | gcgctcttcc | gcttcctcgc | 2940 |
| tcactgactc  | gctgcgctcg  | gtcgttcggc | tgcggcgagc  | ggtatcagct | cactcaaagg | 3000 |
| cggtaatacg  | gttatccaca  | gaatcagggg | ataacgcagg  | aaagaacatg | aagggcgaat | 3060 |
| tctgcagata  | tccatcacac  | tggcgggccg | tcgagcatgc  | atctagaggg | cccaattcgc | 3120 |
| cctatagtga  | gtcgtattac  | aattcactgg | ccgtcgtttt  | acaacgctcg | gactgggaaa | 3180 |
| accctggcgt  | tacccaactt  | aatcgccctg | cagcacatcc  | ccctttcgcc | agctggcgta | 3240 |
| atagcgaaga  | ggcccgccac  | gatcgccctt | cccaacagtt  | gcgcagccta | tacgtacggc | 3300 |
| agtttaaggt  | ttacacctat  | aaaagagaga | gccgttatcg  | tctgtttgtg | gatgtacaga | 3360 |
| gtgatattat  | tgacacgccg  | gggcgacgga | tggatgatccc | cctggccagt | gcacgtctgc | 3420 |
| tgtagataaa  | agtctcccgt  | gaactttacc | cgggtggtgca | tatcggggat | gaaagctggc | 3480 |
| gcatgatgac  | caccgatatg  | gccagtgtgc | cggctctccg  | tatcggggaa | gaagtggctg | 3540 |
| atctcagcca  | ccgcgaaaat  | gacatcaaaa | acgccattaa  | cctgatgttc | tggggaatat | 3600 |
| aaatgtcagg  | catgagatta  | tcaaaaagga | tcttcaccta  | gatccttttc | acgtagaaag | 3660 |
| ccagtccgca  | gaaacggtgc  | tgacccccga | tgaatgtcag  | ctactgggct | atctggacaa | 3720 |
| gggaaaacgc  | aagcgcaaaag | agaaagcagg | tagcttgagc  | tgggcttaca | tggcgatagc | 3780 |
| tagactgggc  | ggttttatgg  | acagcaagcg | aaccggaatt  | gccagctggg | gcgccctctg | 3840 |
| gtaaggttgg  | gaagccctgc  | aaagtaaact | ggatggcttt  | ctcgccgcca | aggatctgat | 3900 |
| ggcgaggggg  | atcaagctct  | gatcaagaga | caggatgagg  | atcgtttcgc | atgattgaac | 3960 |
| aagatggatt  | gcacgcagg   | tctccggccg | cttgggtgga  | gaggctattc | ggctatgact | 4020 |
| gggcacaaca  | gacaatcggc  | tgctctgatg | ccgccgtgtt  | ccggctgtca | gcgcaggggc | 4080 |
| gcccggttct  | ttttgtcaag  | accgacctgt | ccggtgccct  | gaatgaactg | caagacgagg | 4140 |
| cagcgcggtc  | atcgtggctg  | gccacgacgg | gcgttccttg  | cgcagctgtg | ctcgacgttg | 4200 |
| tcactgaagc  | gggaagggac  | tggctgctat | tgggcgaagt  | gccggggcag | gatctcctgt | 4260 |
| catctcacct  | tgctcctgcc  | gagaaagtat | ccatcatggc  | tgatgcaatg | cggcggctgc | 4320 |
| atacgcttga  | tccggctacc  | tgccccattc | accaccaagc  | gaaacatcgc | atcgagcgag | 4380 |
| cacgtactcg  | gatggaagcc  | ggtcttgtcg | atcaggatga  | tctggacgaa | gagcatcagg | 4440 |
| ggctcgcgcc  | agccgaactg  | ttcgccaggc | tcaaggcgag  | catgcccgcg | ggcgaggatc | 4500 |

025CIP SEQ List ver2.txt

|  |      |
|--|------|
| tcgtcgtgac ccatggcgat gcctgcttgc cgaatatcat ggtggaaaat ggccgctttt  | 4560 |
| ctggattcat cgactgtggc cggctgggtg tggcggaccg ctatcaggac atagcgttgg  | 4620 |
| ctacccgtga tattgctgaa gagcttggcg gcgaatgggc tgaccgcttc ctcgtgcttt  | 4680 |
| acggtatcgc cgctcccgat tcgcagcgca tcgccttcta tcgccttctt gacgagttct  | 4740 |
| tctgaattat taacgcttac aatttcctga tgcggtatth tctccttacg catctgtgcg  | 4800 |
| gtatttcaca ccgcatacag gtggcacttt tcggggaaaat gtgcgcggaa cccctatttg | 4860 |
| tttatttttc taaatacatt caaatatgta tccgctcatg agacaataac cctgataaat  | 4920 |
| gcttcaataa tagcacgtga ggagggccac catggccaag ttgaccagtg ccgttccggt  | 4980 |
| gctcaccgcy cgcgacgtcg ccggagcggc cgagttcttg accgaccggc tcgggttctc  | 5040 |
| ccgggacttc gtggaggacg acttcgccgg tgtggtccgg gacgacgtga ccctgttcat  | 5100 |
| cagcgcggtc caggaccagg tgggtgccga caacaccctg gcctgggtgt ggggtgcgcg  | 5160 |
| cctggacgag ctgtacgccg agtggtcgga ggtcgtgtcc acgaacttcc gggacgcctc  | 5220 |
| cgggccggcc atgaccgaga tcggcgagca gccgtggggg cgggagttcg ccctgcgcga  | 5280 |
| cccggccggc aactgcgtgc acttcgtggc cgaggagcag gactgacacg tgctaaaact  | 5340 |
| tcatttttaa tttaaaagga tctaggtgaa gatccttttt gataatctca tgaccaaact  | 5400 |
| cccttaacgt gagttttcgt tccactgagc gtcagacccc gtagaaaaga tcaaaggatc  | 5460 |
| ttcttgagat cttttttttc tgcgcgtaat ctgctgcttg caaacaacaaa aaccaccgct | 5520 |
| accagcggtg gtttggttgc cggatcaaga gctaccaact ctttttccga aggtaactgg  | 5580 |
| cttcagcaga gcgcagatac caaatactgt ccttctagt tagccgtagt taggccacca   | 5640 |
| cttcaagaac tctgtagcac cgcctacata cctcgtcttg ctaatcctgt taccagtggc  | 5700 |
| tgctgccagt ggcgataagt cgtgtcttac cgggttggtg tcaagacgat agttaccgga  | 5760 |
| taaggcgag cggtcgggct gaacgggggg ttcgtgcaca cagcccagct tggagcgaac   | 5820 |
| gacctacacc gaactgagat acctacagcg tgagctatga gaaagcgcca cgcttcccga  | 5880 |
| aggagaaaag gcggacaggt atccggtaag cggcagggtc ggaacaggag agcgcacgag  | 5940 |
| ggagcttcca gggggaaacg cctgggtatct ttatagtcct gtcgggtttc gccacctctg | 6000 |
| acttgagcgt cgatttttgt gatgctcgtc agggggggcg agcctatgga aaaacgccag  | 6060 |
| caacgcggcc tttttacggc tcctgggctt ttgctggcct tttgctcaca tgttctttcc  | 6120 |
| tgcgttatcc cctgattctg tggataaccg tattaccgcc tttgagtgag ctgataccgc  | 6180 |
| tcgccgcagc cgaacgaccg agcgcgagcga gtcagtgagc gaggaagcgg aag        | 6233 |

<210> 11  
 <211> 234  
 <212> DNA  
 <213> artificial

025CIP SEQ List ver2.txt

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ttcacgtttt cccaggtcag aagcgggtttt cgggagtagt gcccactg gggtaacctt 120  
tgagttctct cagttggggg cgtaggggtcg ccgacatgac acaaggggtt gtgaccgggg 180  
tggacacgta cgcgggtgct tacgaccgtc agtcgcgcga gcgcgactag taca 234

<210> 12  
<211> 26  
<212> DNA  
<213> artificial

<400> 12  
taccgtcgac gatgtaggtc acggtc 26

<210> 13  
<211> 11  
<212> PRT  
<213> SV40

<400> 13  
Cys Gly Gly Pro Lys Lys Lys Arg Lys Val Gly  
1 5 10